

D.1.1

STATE OF MICHIGAN



NATURAL RESOURCES
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DEPARTMENT OF NATURAL RESOURCES

John Hannah Building, P.O. Box 30241, Lansing, MI 48909

ROLAND HARMES, Director

April 19, 1993

RECEIVED SEP 14 1993
WMD RCRA
RECORD CENTER

R.B.

Ms. Lydia Odgen Askew
Community Involvement Liaison
Division of Health Assessment and Consultation
Agency for Toxic Substances and Disease Registry
Mailstop E-32
1600 Clifton Road, N.E.
Atlanta, Georgia 30333

Dear Ms. Odgen Askew:

SUBJECT: Petitioned Public Health Assessment, Allen Park Clay
Mine, Allen Park, Wayne County, Michigan
MID 980 568 711

Staff of the Waste Management Division (WMD) have reviewed the draft public health assessment for the Allen Park Clay Mine. Based on that review, the following comments are provided:

1. The data used by ATSDR to make their conclusions about public health implications only included data from 1980 through 1989. The WMD files contain a great deal of sampling data from 1989 through the present that was not considered in the assessment.
2. ATSDR should carefully consider the implications of the statement that "contaminants" have been detected in the groundwater beneath the facility. Contaminants infers a release from a known source. Without further information as to whether the constituents present in the groundwater represent a) upgradient or downgradient conditions; b) the total or dissolved fraction of the sample; and c) a natural occurrence versus a release; it seems more appropriate to state that elevated levels of some constituents are present in the groundwater.

The assessment makes conclusions about metals contamination based strictly upon the laboratory derived number for chemical constituents. These metal levels may be the natural mineralized condition of this aquifer which makes it unusable. Also, the assessment does not appear to consider the limitations associated with using older metals data. For example, whether the analysis was performed upon the total or dissolved fraction of the sample. The majority of the maximum concentration values discussed in the assessment are results from sampling

performed 5 to 10 years ago. In the early to mid-1980's, laboratories typically analyzed water samples for total metals. Silty samples that are preserved without field filtration and are subsequently analyzed in the laboratory for total metals typically yield higher values for metals. When this occurs, the value obtained from the laboratory may not be indicative of groundwater contamination. The conclusions about the metals data needs to distinguish whether this is totals (TOT) or dissolved (DISS) and not "combined."

3. ATSDR may want to consider moving the last paragraph on Page 16, Section C., "Eliminated Exposure Pathways," Groundwater, to the groundwater section on Page 11. The groundwater section entitled "On-Site Contamination" does not discuss the possibility/liability that sources other than the facility are responsible for the elevated constituents present in the groundwater. When discussing maximum concentration values for constituents present in the groundwater (Page 11, Groundwater), this section needs to address whether the sampling locations are upgradient or downgradient from the facility, and for the deep aquifer, the hydrogeologic factors that would limit the potential downward migration of contaminants. To help in this regard, Table 6 should identify the well location where each of the maximum concentration values were detected.
4. The summary at the beginning of the assessment states that "Metals have also been found in the on-site air." We recommend that this statement include that the concentrations were below the levels of public health concern.
5. For ease of reference, ATSDR should consider including an appendix in the back of the assessment containing copies of the analytical data. When comparing the maximum concentration values discussed in the assessment with the analytical data contained in WMD files, it appears that some of the information may be missing. For instance, Table 6 states that the maximum concentration for lead detected in the groundwater was 1000 ppb and that this value was detected during a March, 1985 sampling. When reviewing the data in WMD files from the March, 1985 sampling, the highest concentration noted for lead was 100 ppb. By providing copies of the analytical data in an appendix of the assessment, the reader will be able to quickly reference the information that ATSDR used to make their conclusions, in case questions arise about the data.

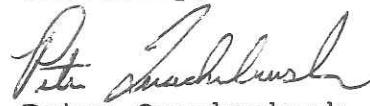
Ms. Lydia Odgen Askew

-3-

April 19, 1993

If you have any questions regarding these comments on the draft health assessment, please contact me.

Sincerely,



Peter Quackenbush
Senior Environmental Engineer
Waste Management Division
517-373-7397

cc: Mayor Gerald Richards, City of Allen Park
Mayor Thomas Coogan, City of Melvindale
Mayor Michael Guido, City of Dearborn
Mr. Richard Traub, U.S. EPA
Ms. Lorraine Kosik, U.S. EPA
Dr. Harold Humphrey, MDPH
Mr. Glen Brown, Wayne County Health Dept.
Mr. Ken Burda, DNR
Mr. Steve Buda, DNR
 Ms. De Montgomery, DNR
HWP/C&E File



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

MAR 29 1990

RECEIVED
APR 2, 1990
OFFICE OF RCRA
WASTE MANAGEMENT DIVISION
EPA, REGION IV

OFFICE OF
SOLID WASTE AND EMERGENCY RESPONSE

Mr. Jerome Amber, Principal Staff Engineer
Ford Motor Company
15201 Century Drive
Suite 608
Dearborn, Michigan 48120

Re: No-Migration Petition for Ford Allen Park Clay Mine
Landfill - F-89-NMFP-FFFFF

Dear Mr. Amber:

I am writing in regard to your no-migration petition for the Ford Allen Park Clay Mine Landfill in which you sought an exemption from a prohibition of the disposal of a restricted hazardous waste, specifically K061- Electric Arc Furnace Baghouse Dust, in the Cell II unit. Following an initial review of the petition, we sent a letter to Mr. Douglas A. Painter on March 8, 1988 requesting the submission of additional information to enable EPA to evaluate your petition. To date we have not received a response to our information request.

The "No-Migration Variances to the Hazardous Waste Land Disposal Prohibition: A Guidance Manual for Petitioners" (Draft Interim Final) August 1989, states that if the additional information is not received within 180 days of the initial request the petition may be dismissed (see attached). This policy was developed to facilitate processing of complete petitions by avoiding burdensome, iterative requests for needed information.

In accordance with this policy, I am writing to inform you that we have dismissed your petition from the no-migration petition process since you did not respond to our information request. The effect of this dismissal is to remove your petition from the review system and close your petition file. Please note that your petitioned wastes are subject to the land disposal restrictions and must still be managed as such.

If you choose to submit a new petition, you will need to provide all of the information outlined in the March 8, 1988 information request letter. Furthermore, since your original submission, EPA now requires additional information to be provided

to demonstrate that migration will not occur. These new procedural and informational requirements are a result of the promulgation of the Land Disposal Restrictions First Third Rule (53 FR 31138, August 17, 1988). See 40 CFR 268.6. The attached Guidance Manual describes these additional requirements.

Your new petition would be assigned a new petition number and reviewed in chronological order along with all new petitions. Please forward new petition (6 copies) to the following address:

Chief, Assistance Branch, Office of Solid Waste (OS-343)
U.S. Environmental Protection Agency
401 M Street, S.W.
Washington, D.C. 20460

If you have any questions regarding the dismissal of your no-migration petition, or information that is needed to prepare a complete petition, please contact Jim Michael at (202) 382-2231.

Sincerely,


Joseph S. Carra, Director
Permits and State Programs Division
Office of Solid Waste (OS-343)

Attachment

cc: Matt Hale, OSW
Elizabeth Cotsworth, OSW
Karl Bremer, Region V
Rich Traub, Region V
Dave Petrovski, Region V
Pete Quackenbush, Michigan DNR

D.1.4

Ford's response to the EPA corrective action letter indicates that leachate from closed landfill cells was released to surface waters on the site prior to 1982. The company stated that action was taken to prevent further releases of leachate, however, they did not indicate that any remedial actions to determine the extent of any contamination and to clean it up were taken. A review of the Wayne County health Department files indicates that leachate outbreaks from the solid waste landfill cells occurred in 1984 and 1985 showing that the actions taken to correct the problem in 1982 were not adequate. Those files also indicated that spill of fuel oil occurred near the sedimentation basin in 1981 and there was no documentation that the contaminated soil was removed.

There is quite a bit of hydrogeological information on this site. Much of the work has been done by Ford to support their request for a ground-water monitoring waiver. This work has confirmed the extensive clay overlying the artesian aquifer. It appears that groundwater monitoring of the artesian aquifer will be waived.

Recommendations

A site investigation (SI) should be carried out for this facility. The site investigation should include inspection and sampling program to determine the location and extent of contamination, if any, from releases of hazardous wastes or hazardous constituents at the facility. The Part B application needs to be updated to address EPA and MDNR's latest review comments and include the revised plans for closure of cell 1 and design cell 2. A RCRA permit should be issued for this facility with a compliance schedule for Ford to perform an approved SI.

Schedule

7/86 EPA NOD to Ford requesting required information to complete the Part B application. (Including proposal for SI)

9/86 Ford submits the requested information.

10/86 EPA and MDNR review submittal and comment to Ford in NOD if necessary.

12/86 If application is adequate draft RCRA permit with compliance schedule for SI.

NAME OF PREPARER Peter QuackenbushPREPARER IS: USEPA EMPLOYEE STATE EMPLOYEE DATE 1/16/86TREATMENT, STORAGE, DISPOSAL FACILITY**RECEIVED**INITIAL SCREENING**JAN 28 1986**FOR
ENVIRONMENTAL SIGNIFICANCE**SOLID WASTE BRANCH
U.S. EPA, REGION V**FACILITY NAME Ford Motor Company, Allen Park Clay MineFACILITY ID # MID980568711FACILITY LOCATION 17250 Oakwood Blvd.
STREET ADDRESSAllen Park Wayne MI 48101
CITY COUNTY STATE ZIP CODELIST ALL CURRENT INTERIM STATUS PROCESS CODESDRDLIST ALL PROCESS CODES PROPOSED IN PART B APPLICATION (IF APPLICABLE)DRDINSTRUCTIONS

FOR EACH OF ITEMS 1 THROUGH 11 BELOW, MARK ONE AND ONLY ONE BOX, BASED ON YOUR KNOWLEDGE OF THE FACILITY. USE THE "RATING DISCUSSION" TO ELABORATE, IF DESIRED. NOTE THAT ANY ENVIRONMENTAL CONCERN RATING OF HIGH CONSTITUTES YOUR RECOMMENDATION THAT THIS FACILITY IS "SUFFICIENTLY ENVIRONMENTALLY SIGNIFICANT" TO WARRANT PREPARATION OF A FACILITY MANAGEMENT PLAN. IN ORDER FOR YOU TO RECOMMEND THAT A FACILITY MANAGEMENT PLAN NEED NOT BE PREPARED, EACH AND EVERY ITEM MUST BE MARKED EITHER LOW OR N/A.

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KOMMEN DÜLL WURZ
U. KOMMEN KÜLZ

Environmental Concern
Rating

1. Rate concern relative to the CERCLA Program, and discuss -(National Priority List sites should automatically be high concern; significant past handlers of CERCLA cleanup wastes should automatically be high concern; facilities that have absolutely no 'CERCLA connection' should be rated N/A)

HIGH LOW N/A



RATING DISCUSSION: _____

2. Rate concern relative to status as a commercial handler, and discuss -- (facilities that handle significant amounts of waste from a variety of sources should be rated high; (facilities that handle only their own company's off-site waste could be rated low; facilities that only handle on-site generated wastes should be rated N/A)

RATING DISCUSSION: They handle only
their wastes.

3. Rate concern relative to facility's financial condition (facilities which have or are expected to declare financial insolvency should be rated high)

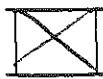
RATING DISCUSSION: _____

Environmental Concern
Rating

4. Rate concern relative to facility's 40 CFR Part 265 compliance status/history, (High Priority Violators and Significant Non-Compliers should be rated high; for proposed facilities, rating is N/A)

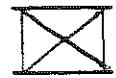
RATING DISCUSSION: No major violations

HIGH LOW N/A



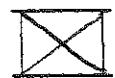
5. Based on the waste management processes employed (to be employed) at the facility, rate the concern, and discuss -- (processes subject to ground water monitoring will most often dictate a rating of high; incinerators will most often dictate a rating of high; "contained" storage/treatment such as in drums/tanks will most often rate low)

RATING DISCUSSION: _____



6. Based on the presence, absence, significance of old Solid Waste Management Units & whether releases from old or current units are known, suspected, corrected; rate the concern, and discuss -- (known & seriously suspected releases should dictate a rating of high, unless felt to be insignificant/de minimis)

RATING DISCUSSION: Known releases
of leachate from solid waste
landfill area



Environmental Concern
Rating

7. Rate concern, based only on the volume and type of waste handled, and discuss -- (low volumes of extremely toxic wastes could rate a high; very heavy volumes of waste could rate a high, though wastes are not particularly dangerous)

RATING DISCUSSION: Low volumes of waste have been handled

HIGH LOW N/A

8. Rate concern relative to facility's NON-hazardous waste general environmental regulatory status/history, and discuss --

RATING DISCUSSION: Company has had some violations but attempted to remedy them expeditiously

9. Rate concern relative to facility's physical location(proximity to population or to sources of accidents or dangers which would tend to increase the facility's inherent danger)

RATING DISCUSSION: Located in highly populated area and major freeway

Environmental Concern
Rating

10. Rate public concern, for whatever reason

HIGH



LOW



N/A

RATING DISCUSSION: Located in a
highly populated area sensitive
to hazardous waste issues.

11. Other

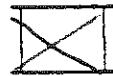


DISCUSS: _____

BASED ON ABOVE ANALYSIS, RECOMMENDATION IS THAT

Ford Motor Company, Allen Park Clay Mine
FACILITY NAME

IS ENVIRONMENTALLY SIGNIFICANT
AND A FACILITY MANAGEMENT PLAN
WILL BE PREPARED



IS NOT, AT THIS TIME, CONSIDERED
TO BE ENVIRONMENTALLY SIGNIFICANT,
AND A FACILITY MANAGEMENT PLAN
WILL NOT BE PREPARED



SUMMARY OF FACILITY SCREENING
FOR ENVIRONMENTAL SIGNIFICANCE

FACILITY NAME

Ford Motor Company Allen Park Clay Mine

FACILITY ID #

MI0980568711

Environmentally Significant

YES

NO

STATE'S RECOMMENDATION OF

1/10/86

DATE



U.S. EPA RECOMMENDATION OF

DATE



JOINT STATE - U.S. EPA DETERMINATION



Discussion of resolution of issues, if any, in arriving at joint recommendation. Include date(s), location, participants at any resolution meetings.

Name of Preparer: L.A. Buckner
 Date: 5/14/86

Model Facility Management Plan

1. Facility Name: Ford Motor Company - Allen Park Clay Mine
2. Facility I.D. Number: MID 980568711
3. Owner and/or Operator: Ford Motor Company
4. Facility Location: Oakwood Blvd & Southfield
Street Address

Allen Park Wayne Michigan Zip Code
City County State Zip Code

5. Facility Telephone (if available): (313) 322-0700

6. Interim Status or Permitted Hazardous Waste Units and Capacities of Each Unit:

<u>Type of Units</u>	<u>Years of Operation</u> (indicate active or closed)	<u>Size or Capacity</u>
<input type="checkbox"/> Storage in Tanks or Containers		
<input type="checkbox"/> Incinerator		
<input checked="" type="checkbox"/> Landfill	Operated as clay mine and landfill since 1955	260 acres 17 acres for hazardous waste
<input type="checkbox"/> Surface Impoundment		
<input type="checkbox"/> Waste Pile		
<input type="checkbox"/> Land Treatment		

7. Interim Status or Permitted Hazardous Waste Process(es) and Capacities of Each:

<u>Type of Process</u>	<u>Years in Operation</u>	<u>Capacity</u>
D 80	1980 Interim Status	17 acres

8. Permit Application Status:

Initial Part B Submission Date: _____

Completed Application Submission Date: _____

Notice of Deficiency Date(s): _____

Notification Aug 11, 1980

9. Identification of Hazardous Waste Generated, Treated, Stored or Disposed at the Facility:

Type of Waste	Quantity	Generated, Treated, Stored or Disposed (note appropriate categories)
K087		
K061		

See Attachment A

10. Date Questionnaire Re Solid Waste Management Units sent out 4/23/85

11. Date response to Questionnaire received May 14, 1985

12. Review of Response indicates: (check one)

- Solid Waste Management Units exist (other than previously identified RCRA units)
- No Solid Waste Management Units exist (other than previously identified RCRA units)
- It is unclear from review of questionnaire whether or not any solid Waste Management Units exist
- Respondent indicates that does not know if any Solid Waste Management Units exist

13. If the response to question 12 is that Solid Waste Management Units exist, then check one of the following:

- Releases of hazardous waste or constituents have occurred or are thought to have occurred
- Releases of hazardous waste or constituents have not occurred
- It is not known whether a release of hazardous waste or constituents has occurred

14. Description of All Available Monitoring Data for Facility:

<u>Type of Data</u>	<u>Date</u>	<u>Author</u>	<u>Summary of Results or Conclusions</u>
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Attachment B

15. Description of Enforcement Status:

<u>Type of Action</u>	<u>Date</u>	<u>Local, State or Federal</u>	<u>Result or Status</u>
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Attachment C

16. Description of Any Complaints from Public:

<u>Source of Complaint</u>	<u>Date</u>	<u>Recipient</u>	<u>Subject and Response</u>
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Attachment D

17. Description of All Inspection Reports for Facility:

<u>Date of Inspection</u>	<u>Inspector (Local, State, Federal)</u>	<u>Conclusions or Comments</u>
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Attachment E

18. During inspection of this facility did the inspector note any evidence of past disposal practices not currently regulated under RCRA such as piles of waste or rubbish, ponds or surface impoundments that might contain waste or active or inactive landfills?

X* Yes - give date if inspection and describe observation

* This inspector has not noted a release however
has been documented recently by WCHD
inspections of solid waste area

____ No

____ Don't know

19. Do inspection reports indicate observations of discolored soils or dead vegetation that might be caused by a spill, discharge or disposal of hazardous wastes or constituents?

X Yes - indicate date of report and describe observations

See Attachment F

____ No

____ Don't know

20. Do inspection reports indicate the presence of any tanks at the facility which are located below grade and could possibly leak without being noticed by visual observation?

Yes - date of inspection and describe information in report

X No

Don't know

21. Does a groundwater monitoring system exist at the facility? yes

22. If answer to question 18 is yes, is the groundwater system capable of monitoring both regulated RCRA units and other Solid Waste Management Units? yes

Explain - GW waiver pending - facility granted partial waiver

23. Is the groundwater monitoring system in compliance with applicable RCRA groundwater monitoring standards? yes

If no, explain deficiency

24. Describe all information on facility subsurface geology or hydrogeology available.

Type of Information Author Date

Summary of Conclusions

25. Did the facility submit a 103(c) notification pursuant to CERCLA?

 Yes Date of Notification _____

 No

26. If answer to 22 is yes, briefly summarize content of that notification.
(waste management units identified, type of waste concerned)

27. Has a CERCLA Preliminary Assessment/Site Investigation (PA/SI) been completed
for this facility?

 Yes

 No

28. If answer to question 27 is yes, briefly describe conclusions of the PA/SI
focusing on types of environmental contamination found, wastes and sources
of contamination.

29. If available, having reviewed the CERCLA notification, RCRA Part A and RCRA
Part B, it appears that:

 RCRA and CERCLA units are same at this facility

X RCRA and CERCLA units are clearly different units

 There is an overlap between the RCRA and CERCLA units
(some are the same, some are different)

30. The facility is on the National Priorities List or a proposed update of the List

 Yes - indicate NPL or update

X No

31. Description of Any Past Releases or Environmental Contamination:

Type/Source of Release	Date	Material Released	Quantity	Response
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Numerous leachate seeps noted with discharge to surface drains. See Attachment E

32. Identification of Reports or Documentation Concerning Each Release Described in Item 14.

Title/Type of Report	Date	Author	Recipients	Contents
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See Attachment E

33. Highlight any information gaps in the file - describe any plans to obtain additional needed information.

Prior to 1974 no information on previous fill areas

Recommendation for Regional Approach to the Facility: Rank in order of appropriateness for this Facility one through seven

2 Permit Compliance Schedule

3 Corrective Action Order (may include compliance schedule)

4 Other Administrative Enforcement

5 Judicial Enforcement

6 Referral to CERCLA for Federally Financed or Enforcement Activity

1 Voluntary/Negotiated Action

7 State Action

Brief narrative in explanation of selection of ranking: _____

Corrective action should involve evaluation of the SW area containment areas, de-water solid waste leachate heel & engineer a permanent solution to prevent leachate buildup and the leachate seeps.

If Permit Alternative is Selected: Projected Schedule

Date of Part B Submission: _____

Date of Completeness Check: _____

Date for Additional Submissions (if required): _____

Date of Completion of Technical Review: _____

Completion of Draft Permit/Permit Denial: _____

Public Notice for Permit Decision: _____

Date of Hearing (if appropriate): _____

Date for Final Permit or Denial Issuance: _____

Description of any corrective action provisions to be included in permit: _____

If Corrective Action Order Alternative is Selected:

Estimated Date for Order Issuance: _____

Description of Provisions of the Order to be Completed by Facility: _____

Description of Compliance Schedule to be Contained in Order: _____

If Other Administrative Enforcement Action is Selected:

Projected Date for Issuance of the Order: _____

Description of Provisions of the Order: _____

If Judicial Enforcement Alternative Selected:

Date of Referral to Office of Regional Counsel: _____

If Referral to CERCLA for Action Selected:

Date of Referral to CERCLA Sections: _____

If Voluntary/Negotiated Action Alternative is Selected:

Date of Initial Contact with Facility: _____

Description of Goals of Contact or Discussions with Facility: _____

Secure Solid Waste Area & remove leachate.

Devise system to permanently manage leachate

Date for Termination of Discussions if Not Successful: _____

Date of Finalization of Settlement if Negotiation Successful: _____

If State Action Alternative is Selected:

Date for Referral to State: _____

State contact! _____



WAYNE COUNTY DEPARTMENT OF HEALTH

ENVIRONMENTAL HEALTH DIVISION

3669 METRO PLACE MALL
WAYNE, MICHIGAN 48184
Telephone: (313) 326-4900

DENNIS J. DEWORTH
Director
JOHN S. STOCK
Deputy Director

September 13, 1983

Mr. Hakim Shakir
Michigan Dept. of Natural Resources
Ground Water Quality Division
1120 State Fair
Detroit, Michigan 48203

REFERENCE: Allen Park Clay Mine Landfill
License Application
Solid Waste Facility #82-001

Dear Hakim:

This Department has reviewed the revised engineering plans, as well as the license application for the above mentioned facility and recommends approval of the plans and the license renewal. The license, when issued, should stipulate the following:

1. Variances to Rule R 299.4315(4) and R 299.4316(1) are granted provided only the following wastes are accepted:

- Blast furnace flue dust
- BOF flue dust
- Blast furnace filter cake
- Foundry sand
- BOF KISH
- Fly ash
- Lime dust
- Coke breeze
- Waste water treatment plant sludge
- Scrap glass or cullet
- Construction and demolition wastes

Prior to accepting any additional waste streams, approval must be received from the Wayne County Health Department or the variances cited above will be rescinded.

Mr. Hakim Shakir
Dept. of Natural Resources
Ground Water Quality Division

September 13, 1983

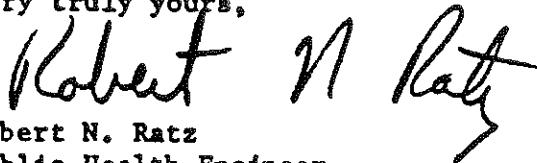
- Page Two -

2. Water quality monitoring must continue as indicated in Ford's May 5, 1983 letter to the Wayne County Health Department until approved otherwise.

Enclosed are three sets of the engineering drawings for the clay mines landfill. Please stamp these plans approved when the license is issued and then please return two copies to this office. We will then forward one copy to Ford Motor Company.

If you have any questions, please contact me at 326-4900, extension 70.

Very truly yours,



Robert N. Ratz
Public Health Engineer
Division of Environmental Health

RNR/jt
Encls.

cc: Ben Tretheway
(Ford Motor Co.- 3001 Miller Rd., Dearborn, MI 48121)

cc: Gordon Ruttan
Wayne County Planning Commission
730 City County Bldg., Detroit, MI

ANNUAL
ESTIMATED AMOUNT OF REFUSE FOR CLAY MINE DUMP

<u>Area</u>	<u>Material</u>	<u>Cubic Yards</u>
Dearborn Engine	Mud	18,000
Frame Plant	General Refuse	9,000
Specialty Foundry	Sand - Cores	41,000
Blast Furnace	Flue Dust	58,000
Glass Plant	Scrap Cullet	4,000
BOF	BOF Dust	33,000
Power House	Fly Ash	115,000
Lagoons	Sluice	17,500
MCC	Sand	100,000
Miscellaneous	General Refuse	<u>10,000</u>
		405,500

1/27/77

MPD-EK

Attachment A
Inspector's Copy

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES

Hazardous Waste Disposal Facility
Operating License

1. In compliance with the provisions of the Michigan Hazardous Waste Management Act (1979 PA 64, as amended),

Ford Motor Company
Allen Park Clay Mine Landfill

17307 Oakwood
Allen Park, MI

is authorized to operate a hazardous waste disposal facility located at

Oakwood Boulevard and Southfield Freeway
Allen Park, Michigan

in accordance with the provisions set forth in Parts I and II hereof.

2. The license shall become effective on the date of issuance and shall expire 4 years from the date of issuance.
3. This license is comprised of the following 35 pages, the operating license application and all addendums to the application.
4. Issued this 22nd day of October, 1982 for the Michigan Department of Natural Resources.


Howard A. Tanner
Director

17250 Oakwood Boulevard
Allen Park 48120

RECEIVED

NOV 2 1982

RESOURCE RECOVERY
S.E. MICHIGAN REGION
DIVISION OFFICE

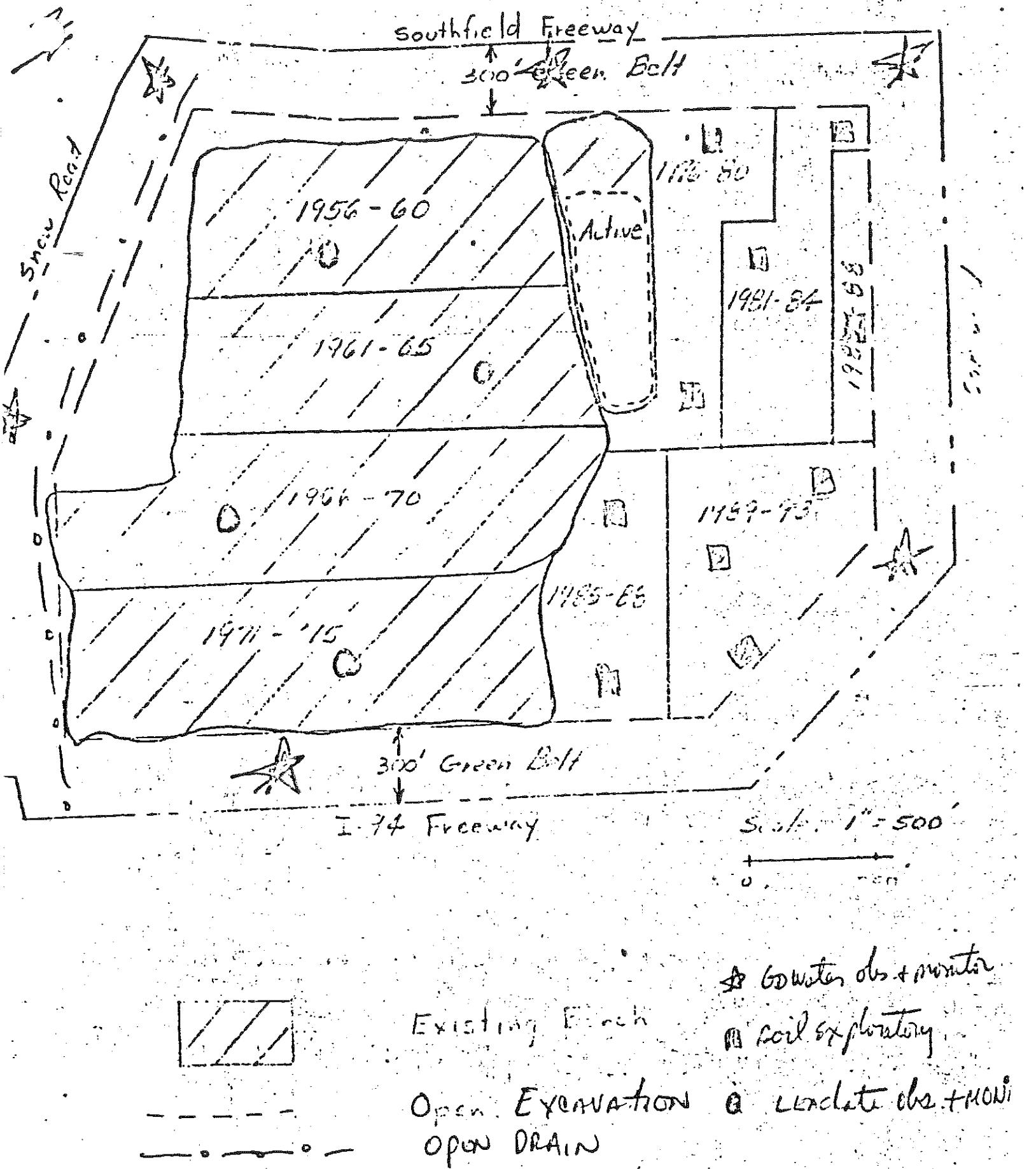
TABLE 1

Acceptable Waste Types
and
Annual Quantity Limitations

<u>Hazardous Waste Code</u>	<u>Waste Description</u>	<u>Quantity Limit per year</u>
K061	Emission control dust/sludge from the primary production of steel in electric furnaces	19,074 tons
K087	Decanter tank tar from coking operations	5,170 cu. yd.



PL 80N 7.1 = 400000000 = Attachment A-4
255 Ac QWQ File



Attachment B

Page 1 of
FMC - Allen Park

<u>Type of Data</u>	<u>Date</u>	<u>Author</u>	<u>Monitoring Data</u>	<u>Summary of Results</u>
Surface pond	7/9/76	MDNR		Cl - 2300 mg/l; SO ₄ 1320 pH 12.7 - contaminated
Surface waters	11/30/76	MDNR		Contamination noted
GW	2/8/78 - 7/27/79	FMC		No contamination
GW	7/30/80	FMC		No contamination
GW	11/17/80	MDNR		No contamination
GW	11/20/80	MDNR		No contamination
GW	7/14/82	FMC		No contamination
"	10/26/82	FMC		" "
Waste Analysis	12/14/82	FMC		No contamination
Sediment Pad	2/23/83	"		No contamination
GW	2/24/83	"		" "
GW	4/26/83	"		" "
Leachate	7/8/83	"		" "
Leachate	9/3/84	MDNR		Phenol contamination
GW	7/12/84	"		No contamination

Allen Park Clay Mine Wastes
Typical as Received Analyses (mg/kgm)

EP Toxic	Decanter Tank Tar Sludge	Electric Arc Furn. Dust	Blast Furn. Fluor Dust	BOF Flue Dust	Blast Furn. Filter Cake	Foundry Sand	BOF Kish	Fly Ash	Lime Dust	Coke Breeze
	No	Yrs(Zn,Pb,Cd)	No	No	No	No	No	Exempt	No	No
Iron	----	150,000	122,000	560,000	150,000	1,200	490,000	34,500	----	5,000
Carbon	4,700	520,000	7,400	404,000	5,600	240,000	194,000	----	----	990,000
Arsenite	50	19	42	2	20	78	----	----	16	16
Barium	<1	<1	<1	20	<1	<1	----	----	<1	<1
Cadmium	95	<1	50	8	<1	<1	----	----	<1	<1
Chromium	500	<1	130	70	<1	60	----	----	1	1
Lead	<4,500	<1	3,000	350	44	<1	----	----	69	69
Manganese	<1	<1	<1	<1	<1	<1	----	----	<1	<1
Selenium	120	98	<1	<1	35	70	----	----	3	3
Silver	6	<1	<1	9	<1	<1	----	----	19	19
Manganese	39,000	7,500	10,000	4,500	79	2,800	----	----	70	70
Zinc	150,000	120	22,000	400	40	194	----	----	110	110
Phosphorus	450	200	190	300	400	170	----	----	90	90
Sulfur	3,600	4,000	1,600	4,000	200	850	3,100	----	7,300	7,300
Calcium	61,000	18,000	2,000	20,000	60	580	13,100	714,700	300	300
Magnesium	11,000	7,500	9,600	13,000	100	3,800	5,400	----	300	300
Aluminum	2,400	2,200	<2	3,700	<2	1,600	147,200	----	<2	<2
Silicon	15,000	28,000	8,000	83,000	450,000	25,000	201,700	----	20,000	20,000
Potassium	5,900	980	5,000	2,200	170	640	9,700	----	820	820
Sodium	5,200	440	2,300	1,500	390	630	3,700	----	650	650
Fluorine	26	10	23	4	<1	48	----	----	<1	<1
Cyanide	14	<1	<1	3	<1	<1	----	----	2	2
Phenol	1,800	<1	<1	<1	3	<1	2	----	3	3
Naphthalene	2,700	----	----	----	----	----	----	----	----	----

SSECO
12/14/02

ON Autumn Creek, New York
TO L. H. Ulrich

COLLECTED BY K. Blockley

RECEIVED AT LAB

EXAMINER C. J. Lee

"DO NOT PUNCH"

SAMPLE
REMARKS

Superior analyzed

SEND RESULTS TO J. J. S. G. R. M.

DESCRIPTION OF SAMPLING
SITE OR SAMPLE

Levee Well

REF NO.	STORED NUMBER	START DATE YYMMDD	TIME TTTT	DEP-TH FEET	LAB NO.	CL2 T. RES MG/L	OXYGEN DIS. MG/L	C.O.D. HIGH MG/L	T.O.C. AMPUL MG/L	PHENOL T. REC MG/L	CN TOTAL MG/L	S TOTAL MG/L	BOD-5 TOTAL MG/L
P	I01	201120	1400		00008	50060	00300	00340	00680	32730	00720	00745	00310
	I02												
	I03												
	I04												
	I05												
	I06												
	I07												
	I08												
	I09												
	I10												

NO2	NO3	ND2	NH3	ORG N	KJEL N	ORTH. P	PHOS. P	MBAS	CR6+ TOTAL MG/L	F TOTAL UG/L	CL TOTAL MG/L	SI TOTAL MG/L	S04 REACT. TOTAL MG/L	ALKI TOTAL MG/L	BICARB HCO3- TOTAL MG/L	CARB CO3- TOTAL MG/L
L N 30	MG/L 00620	TOTAL 00615	MG/L 00610	TOTAL 00605	MG/L 00625	TOTAL 70507	TOTAL 00665	MG/L 38260	01032	00951	00940	00958	00945	00410	00440	00445
C 0.47	0.39	C 0.73								120		860				
C		C														
C		C														
C		C														
C		C														
C		C														
C		C														
C		C														
C		C														
C		C														
C		C														
C		C														
C		C														

MICHIGAN DEPT. OF NATURAL RESOURCES, ENVIRONMENTAL LABORATORY ANALYSIS -- PHYSICAL & BIOLOGICAL - WATER - GENERAL USAGE
N-6731 PROJ CODE 613 COST CENTER 96007 PR 44 COLLECTED BY E. DeGrooten TRANSFERRED TO A.R. RECEIVED

RECEIVED
AT LAB
EXAMINER
K.W.
SEND RESULTS TO T. T. R.
NAME & DATE
"DO NOT PUNCH"

- "DO NOT PUNCH" -

DESCRIPTION OF SAMPLING SITE OR SAMPLE

OBSERVATION VIII

First, etc. — SAMPLE REMARKS

TRANSFERRED TO L. A. Burch RECEIVED AT LAB

EXAMINER

**SEND RESULTS TO
(NAME & SECTION)**

NATURAL RESOURCES, ENVIRONMENTAL LABORATORY ANALYSIS -- ENVIRONMENTAL QUALITY - WATER - GENERAL USAGE

STATION 65 - COST CENTER 96007 FR. 4 - COLLECTED F. ELLORADICH BY J. JANISKE TRANSFERRED TO

RECEIVED AT LAB

EXAMINER J. JANISKE

Sample analyzed in 1968-10 except 5

Well 1000 ft. off road, Msd.

SAMPLE
REMARKS

DO NOT PUNCH		REF NO.	STORED NUMBER	START DATE YYMMDD	TIME TTTT	DEP TH FEET	LAB NO. 2 00008	CL2 50060	OXYGEN DIS MG/L 00300	C. O. D. HIGH MG/L 00340	T. O. C. AMPUL MG/L 00680	PHENOL UG/L 32/30	CN TOTAL MG/L 00720	S- TOTAL MG/L S 00745	BOD-1 TOTAL MG/L 00310
DESCRIPTION OF SAMPLING SITE OR SAMPLE		101	10116	851117	1445	10116				30	11	89			412.02
WATER		102	10117	701117	1620	9107				290	80	30			412.02
Well		103	10117	701117	1150	10109				320	78	8			406
		104	10117	701117	1300	10109				29	11	15			412.21
		105	10117	701117	1345	10110				39	12	8			412.02
		106	10117	701117	1345	10110									
		107	10117	701117	1345	10110									
		108	10117	701117	1345	10110									
		109	10117	701117	1345	10110									
		110	10117	701117	1345	10110									

NO3 TOTAL MG/L N 00620	NO2 TOTAL MG/L N 00615	NH3 TOTAL MG/L N 00610	ORG N TOTAL MG/L N 00605	KJEL N TOTAL MG/L N 00625	ORTH. P TOTAL MG/L N 70507	PHOS. TOTAL MG/L P 00665	MBAS 70507 38260	CR6+ TOTAL MG/L 01032	F TOTAL MG/L 00951	CL TOTAL MG/L 00940	SI REACT. TOTAL MG/L 00958	SO4= TOTAL MG/L 00945	ALK. TOTAL MG/L 00410	BICARB HC03- MG/L 00440	CARB. CO3- MG/L 00443
C 1.01	0.64	C 0.92				0.06				20					
C 1.12	0.05	8.0	C 11.			0.08				820				C 78	C C
C 1.10	0.02	0.01	C 0.71			0.01				450				C 76	C C
C 1.11	0.02	0.59	C 1.3			0.02				93				C 285	C C
08	C 1.07	0.02	39	C .93						120				C 176	C C
C			C											C	C
C			C											C	C
C			C											C	C
C			C											C	C
C			C											C	C

STATE OF NATURAL RESOURCES, ENVIRONMENTAL LABORATORY ANALYSIS -- INORGANICS + WATER - GENERAL USAGE

ITEM 6B COST 96001 PR 4 COLLECTED BY

COLLECTION CENTER J. JANICKI

TRANSFERRED TO

RECEIVED AT LAB

DEC 8 1980

EXAMINER *Veronica*

Allen Park Clay Mine; Allen Park, Mich.

SAMPLE
REMARKS

SEND RESULTS TO
(NAME & SECTION)

J. Janicki, Resource Recovery

"DO NOT PUNCH"

DESCRIPTION OF SAMPLING
SITE OR SAMPLE

REF	STORED	START	TIME	DEP-	LAB	CA	Fe	Mn	Na	K	CD	CR	Cu	Ni
	NO.	NUMBER	DATE	MIL	TH	NO.	TOTAL MO/L	TOTAL MO/L	TOTAL MO/L	TOTAL MO/L	CD	TOTAL UG/L	TOTAL UG/L	TOTAL UG/L
						2	00008	00916	00927	00929	00937	01027	01034	01042
STAG Water	101	801117	1145			19106	40	7	55	5.0	K20	K50	K30	K
	102	801117	1620			19107	160	70	480	95			K	K
	103	801118	1130			19108	160	45	190	3.9			85	3.0M
	104	801117	1300			19109	130	50	130	3.0	CD	CD	CD	CD
	105	801118	1345			19110	130	50	130	3.0	K20	SP	1290	3.0
	106					19111	130	50	130	3.0	CD	CD	CD	CD
Elmwood WELL	107	801118	1300			19112	250	800	100	3.6	K20	K50	20	K50
	108					19113	250	800	100	3.6				
	109					19114	250	800	100	3.6				
	110					19115	250	800	100	3.6				

ZN	FE
TOTAL UG/L 01092	TOTAL UG/L 01045

K50	75	1600
	120	2100
1300	20000	15,000

180	13	
PB	X-000	3600
DIS	DIS	DIS

K50	180	K100
-----	-----	------



DEPT. OF NATURAL RESOURCES, ENVIRONMENTAL LABORATORY ANALYSIS -- PHYSICAL & BIOLOGICAL - WATER - GENERAL USAGE

PROJ 6B COST 96007 FR 4 COLLECTED P. B. CATAUCH
CODE CENTER 104 BY J. STUCK TRANSFERRED TO RECEIVED AT LAB EXAMINER RSV

New York State, Allen Park, Mich.

SAMPLE
REMARKS

SEND RESULTS TO J. STUCK RECOVERY
(NAME & SECTION)

"DO NOT PUNCH"

DESCRIPTION OF SAMPLING SITE OR SAMPLE	REF NO.	STORET NUMBER	START DATE YYMMDD	TIME TTTT	DEP TH FEET	LAB NO.	TEMP DEGREE CENT.	FECAL COLI MF.	TOTAL COLI MF.	PH UNITS	COND. 25 C US/CM	RES-NF SS-105 MG/L	RES-TF TDS180 MO/L
						00008	00010	31616	31504	00400	00095	00530	70300

101		801117	1545		131106					8.1	550	26	380
102		801117	1620		131107					7.9	3300	18	1300
103		801118	1120		131108					7.5	2000	120	1200
104		801118	1200		131109					8.1	3150	760	1900
105		801118	1245							105	84	1940	36
106													
107													
108													
109													
110													

DEPT. OF NATURAL RESOURCES, ENVIRONMENTAL LABORATORY ANALYSIS -- C

PROJ 68 COST 96007 PR 4 COLLECTED BY J. JASIECZAK TRANSF

CODE --- CENTER --- BY J. JASIECZAK TO

44660 Lick Creek Mine, Auco Park, Mich.

SAMPLE

REMARKS

NICS - WATER - GENERAL USAGE

RECEIVED
AT LABEXAMINER
*J.J.*SEND RESULTS TO J. JASIECZAK
(NAME & SECTION)

"DO NOT PUNCH"

DESCRIPTION OF SAMPLING SITE OR SAMPLE

P

REF NO.	STORED DATE YYMMDD	TIME MIL TTTT	DEP TH FEET	LAB NO. 2 00008	OIL G/L 0560	A-1242 PCB UG/L 39496			A-1254 PCB UG/L 39504			A-1260 PCB UG/L 39508			VOL H.C.
						KO.1	KO.1	KO.1	KO.1	KO.1	KO.1	KO.1	KO.1	KO.1	
I01	801117	1545	15100												
I02	801117	1620	19100												
I03	801118	1130	15100												
I04	801118	1340	15100												
I05	801118	1345	15100												
I06					OS										
I07															
I08															
I09															
I10															

LAB # 6552 PROJ G3 LUST CENTER 96421 F-4 COLLECTED BY DISCOVERED TRANSFERRED TO AT LAB

LOCATION WELL 1001, SAW MILLS, GLEN ELLIN SAMPLE SUSPENDED SOLIDS SN: 153 REMARKS REMOVED SEND RESULTS TO J. T. JAMES, RESEARCH
 SAMPLED 1001, SAW MILLS, GLEN ELLIN (NAME & SECTION)

<u>"DO NOT PUNCH"</u>		REF NO.	STORED NUMBER	START DATE YYMMDD	TIME MIL TTTT	DEP-TH FEET	LAB NO. 00008	CL2 T. RES 50060	OXYGEN DIS. MG/L 00300	C.O.D. HIGH MG/L 00340	T.O.C. AMPUL MG/L 00680	PHENOL T. REC UG/L 32730	CN TOTAL MG/L 00720	S= TOTAL MG/L 00745
FIELD ID.		DESCRIPTION OF SAMPLING SITE OR SAMPLE		101	801210		0931			15	7.2	15	10.115	2.63
W-2		OBSERVATION WELL		102	801210		0931			15	5.8	279	K0005	K002
W-5		"		103	801210		0933			10	1.2	21	K0005	3.28
W-5s		"		104	801210		0934			84	24	K5	K0005	K002
W-7		"		105	801210		0935			32PS	13	23	0017	C.PNA
W-10		"		106	801209		0936			18	2.7	7	K0005	271
W-10s		"		107	801210		0937			20	6.1	51	K0035	K302
				108										
				109										
				110										

REF NO.	N03N02	N03	N02	NH3	ORG N	KJEL N	ORTH. P	PHOS.	MBAS	CR6+	F	CL	SI	S04+	ALK	BICARB	CARB.
	TOTAL MG/L N 00630	TOTAL MG/L N 00620	TOTAL MG/L N 00615	TOTAL MG/L N 00610	TOTAL MG/L N 00605	TOTAL MG/L N 00625	TOTAL MG/L N 70507	TOTAL MG/L P 00665	MGBA 38260	TOTAL UG/L 01032	TOTAL MG/L 00951	TOTAL MG/L 00940	REACT. MG/L 00958	TOTAL MG/L 00945	TOTAL MG/L 00410	HCO3- MG/L 00440	CO2- MG/L 00445
01	C 0.03	0.31	0.50	C 0.60							180		920	164	G700	C 0.01	
02	C 0.02	K0.01	0.48	C 0.50							91		100	151	G192	C 0.03	
03	C 0.09	K0.01	0.42	C 0.29							150		160	640	G675	C 0.03	
04	C 0.04	K0.01	0.12	C 0.42							1200		200	255	C315	C 0	
05	C 0.11	0.01	1.1	C 0.42							160		610	92	C80	C 22	
06	C 0.01	K0.01	0.72	C 0.26							160		1700	179	G750	G10	
07	C 0.15	0.01	0.42	C 0.54							180		830	125	C155	C 0	
08	C		C	C											C700	C 0	
09	C		C	C											C700	C 0	
10	C		C	C											C350	C 0	

L.A. Balmer
FMC Operator
Wyanico, NY.
File #

ESD-03201, REV., 05/80

MICHIGAN DEPT. OF NATURAL RESOURCES

ENVIRONMENTAL LABORATORY ANALYSIS -- INORGANICS IN WATER - GENERAL USAGE

DEC

LAB LOG# 6832 PROJ 6B COST 96007 PR

COLLECTED J. JAWULEK
BY F. PESCAROLI

TRANSFERRED TO RECEIVED AT LAB EXAMINER A.J.

LOCATION ALLEN PARK CLAY MINE, ALLEN PARK, MIch. SAMPLE REMARKS

SEND RESULTS TO (NAME & SECTION) J. JAWULEK, READER

DO NOT PUNCH		REF NO.	TORET NUMBER	START DATE YYMMDD	TIME MIL TH TTTT	DEP- FEET	LAB NO. 200008	CA TOTAL MG/L 00916	Mg TOTAL MG/L 00927	NA TOTAL MG/L 00929	K TOTAL MG/L 00937	CD TOTAL UG/L 01027	CR TOTAL UG/L 01034	CU TOTAL UG/L 01042
FIELD ID.	DESCRIPTION OF SAMPLING SITE OR SAMPLE	P												
W-2	OBSERVATION WELL	101					19U31	230	160	120	5.3	K20	50	K20
W-25	" "	102					19U31	300	100	100	3.3			K50
W-5	" "	103					19U31	300	190	95	4.2			200
W-55	" "	104					19U31	340	100	380	1.5			40
W-10	" "	105					19U36	360	240	100	4.9			120
W-105	" "	106					19U37	280	90	95	2.5			130
	METALS BLANK	107					19U38	K1	K1	K1	K1			K30
		108					19935							
W-7	OBSERVATION WELL	109		801210			DISSolved X		X	X	X	X	X	X
		110					METALS							

(CONTINUED)

REF NO.	PB TOTAL UG/L 01051	ZN TOTAL UG/L 01092	FE TOTAL UG/L 01045	Ca diss	Mg diss	K diss	Na diss	Al diss	Cr diss	Cu diss	Ni diss	Pb diss	Zn diss	Fe diss
01	K50	26000	2700	X	X	X	X	X	X	X	X	X	X	X
02	95	9500	3700	X	X	X	X	X	X	X	X	X	X	X
03	50	15000	5600	X	X	X	X	X	X	X	X	X	X	X
04	220	14000	4600	X	X	X	X	X	X	X	X	X	X	X
05	K50	37000	5600	X	X	X	X	X	X	X	X	X	X	X
06	65	10000	6000	X	X	X	X	X	X	X	X	X	X	X
07	K50	K50	K100	X	X	X	X	X	X	X	X	X	X	X
08														
09	X	X	X	280	K1	150	19	K20	65	K20	K50	K50	65	K100
10														

MICHIGAN DEPT. OF NATURAL RESOURCES, ENVIRONMENTAL LABORATORY ANALYSIS -- PHYSICAL & BIOLOGICAL - WATER - GENERAL USAGE
LAB 6837 PROJ 6B COST 96007 PR 4 COLLECTED J. JAWICKI BY E. BELGARDISH TRANSFERRED TO RECEIVED A EXAMINER

TO RECEIVED AT LAB EXAMINED
SAMPLED ALLEN PARK CLAY Mine, ALLEN PARK, MICH. (Forage) SAMPLE RECEIVED EXAMINED
SEND RESULT TO

LOCATION ALLEN PARK CLAY MINE ALLEN PARK, MICH. (Fort G.C.) SAMPLE
SAMPLED AT LAB

DO NOT PUNCH

DO NOT PUNCH" -----> REP STORET START TIME DEP-1 LAB ITEM. IFFCAL TOTAL

DO NOT PUNCH		REMARKS										(NAME & SECTION)			
FIELD ID.	DESCRIPTION OF SAMPLING SITE OR SAMPLE	REF NO.	STORED NUMBER	START DATE	TIME	DEP MIL	TH	LAB NO.	TEMP DEGREES	FECAL COLI	TOTAL COLI	PH STAND.	COND.	NES-MF S-3 TDS1	RES-3 MG/L TDS1
W-2	OBSERVATION WELL	I01		801210				00008				00400	00095	25 C	105
W-2	" "	I02		801210				00008				8.3	2350		1800
W-5	" "	I03		801210				00008				7.8	2200		1900
W-5	" "	I04		801210				00008				8.9	1630		1700
W-2	" "	I05		801210				00008				7.2	4100		3100
W-10	" "	I06		801209				00008				11.3	2200		1400
W-10	" "	I07		801210				00008				7.8	3000		2800
		I08						00008				7.6	9150		1121
		I09						00008							
		I10						00008							

MICHIGAN DEPT. OF NATURAL RESOURCES, ENVI

LAB 5832 PROJ 68 COST 96007 PR
LCGII CODE --- CENTER 96007 PRLOCATION ALLEN FARM CLAY PLATE, ALLEN PARK, MICH.
SAMPLED

ENVIRONMENTAL LABORATORY ANALYSIS -- ORGANICS -- SEDIMENTS -DRY WT. BASIS

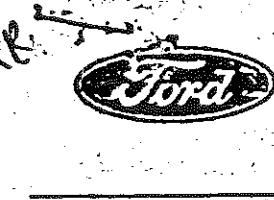
COLLECTED J JANICZEK
BY E DELSPAGHETTI TRANSFERRED TO

RECEIVED AT LAB EXAMINER

SEND RESULTS TO
(NAME & SECTION) J. JANICZEK, ANALYST

FIELD ID.	"DO NOT PUNCH" DESCRIPTION OF SAMPLING SITE OR SAMPLE	REF NO. P	TO RET NUMBER YYMMDD	START DATE YYMMDD	S,T MIL	NUM SAM- PLES	END DATE YYMMDD	TIME DEP- TH	LAB NO. 2 00008	TOTAL SOLIDS 70318	VOL/TL % T.S.	FE-OIL 70322	PCP 00561	1A-12/ UG/KG 39493
W-2	OBSERVATION WELL	C01	801210						L0031					K0.1
W-25	"	C02	801210						L0032					
W-5	"	C03	801210						L0033					
W-55	"	C04	801210						L0034					
W-7	"	C05	801210						L0035					
W-10	"	C06	801209						L0036					
W-105	"	C07	801210						L0037					
		C08												
		C09												
		C10												

REF NO.	A-1260 PCB 39511	DDE P,P'- 39321	DDD P,P'- 39311	DOT O,P- 39311	DDT P,P- 39306	DILDRN UG/KG 39383	CHLRDN UG/KG 39351	HCB UG/KG 39701	VOL HC GC SCAN					
01	K0.1								U					
02									U					
03									U					
04									U					
05									U					
06									U					
07									U					
08									U					
09									U					
10									U					



CENTRAL LABORATORY SERVICES INC.
GENERAL SERVICES
LABORATORY INVESTIGATION REPORT

NUMBER 003457

To: D. L. Bartley

July 30, 1980

SUBJECT: Clay Mine Well Water

SUPPLIER: Steel Division

OBJECT: Analyze samples for Phenol, Nitrate, Nitrite, Ammonia, Sulfate Bicarbonate, Chloride, Total Carbon, total dissolved solids, COD, Iron, Calcium, Sodium, Magnesium, Lead and Chromium. Determine the pH and Specific Conductance.

TEST DATA:

TEST	#2	#5	#7	#10	Analyst	Method
pH	7.85	8.21	10.16	7.54	D. P. L.	EPA 1979, 150.1
Specific Conductance (umhos/cm)	2250	1500	2800	1375	D. P. L.	EPA 1979, 120.1
T.D.S. (mg/L)	1971	1106	1063	2725	D. P. L.	EPA 1979, 160.1
Bicarbonate as CaCO ₃ (mg/L)	284	588	209	204	D. P. L.	Std. Methods, 14th Ed. 14
Ammonia as N (mg/L)	0.50	0.41	1.36	0.83	D. K. M.	EPA 1979, 350.2
Nitrate (mg/L)	<10	<10	11.10	<10	M. S. D.	Ion Chromatography
Nitrite (mg/L)	<10	<10	<10	<10	M. S. D.	"
Chloride (mg/L)	183.88	108.50	170.20	125.67	M. S. D.	"
Sulfate (mg/L)	1115.14	153.00	495.24	1766.62	M. S. D.	"
Phenolics (mg/L)	<0.005	<0.005	0.010	0.006	M. S. D.	EPA 1979, 420.1
COD (mg/L)	16	<10	47	40	D. P. L.	EPA 1979, 410.1
Total Carbon (% per Total Volume)	0.023	0.036	0.012	0.009	K. L.	Leco WR-12 Book 789 Page 85

(continued on page 2).

CENTRAL LABORATORY SERVICES

GENERAL SERVICES

LABORATORY INVESTIGATION REPORT

NUMBER 003457

TEST DATA: (Continued)

Page 2

TEST	#2	#5	#7	#10	Analyst	Method
Calcium (mg/L)	240.30	26.04	194.50	366.88	R. F.	*ICP - OES
Chromium (mg/L)	0.12	0.13	<0.10	0.15	R. F.	"
Iron (mg/L)	2.56	2.47	13.46	6.78	R. F.	"
Lead (mg/L)	<0.40	<0.40	<0.40	0.45	R. F.	"
Magnesium (mg/L)	191.1	182.6	0.92	237.3	R. F.	"
Sodium (mg/L)	105.50	89.33	106.25	92.33	R. F.	"

*Inductive Couple Plasma - Optical Emission Spectroscopy

By M. S. Drouillard
M. S. Drouillard

Concur:

J. A. Galloway
 J. A. Galloway, Section Supervisor
 Environmental Section
 Chemistry Department

MSD/em



16011-2

CLAY MINE - MONITORING WELLS

ANALYSES--3/8/78 VS. 7/27/79

Test Parameter	Boring #2		Boring #5		Boring #7		Boring #10		Current Excavation 7/27/79
	3/08/78	7/27/79	3/08/78	7/27/79	3/08/78	7/27/79	3/08/78	7/27/79	
C.O.D. mg/l	241.0	53.0	188.0	21.0	150.0	28.0	346.0	11.0	52.0
Chlorides mg/l	183.0	NA	165.0	NA	312.0	NA	146.0	NA	NA
Iron mg/l	0.01	NA	<0.01	NA	0.06	NA	0.05	NA	NA
Sulphates mg/l	1,250.0	351.0	300.0	154.0	475.0	345.0	2,150.0	1,410.0	600.0
T.K. Nitrogen mg/l	2.7	0.90	2.5	0.67	2.2	1.77	3.0	0.83	1.83
pH	7.96	7.83	8.06	8.82	12.03	10.71	7.65	7.35	8.12
Phenolics μ g/l	22.0	32.0	<2.0	14.0	<2.0	19.0	<2.0	4.0	6.0
T.D.S. mg/l	2,389.0	2,081.0	1,161.0	1,126.0	2,142.0	1,138.0	2,812.0	2,789.0	2,288.0
Carbonate Hardness mg/l	1,300.0	1,360.0	880.0	805.0	1,050.0	525.0	1,820.0	1,890.0	1,135.0

NA = not available; tests not completed on these parameters

- Note:
- (1) Samples taken on March 8, 1978 analyzed by Hydro Research Services of Pontiac, Michigan
 - (2) Samples taken on July 27, 1979 analyzed by Ford Motor Company Central Laboratories

August 7, 1979

CHEMICAL ANALYSIS - WASTE WATERS
MICHIGAN WATER RESOURCES COMMISSION

T.T.

SOURCE

F.M.Co. - OAKWOOD

(NAME OF INDUSTRY OR MUNICIPALITY)

Al Park

(CITY OR TWP)

Wayne

(COUNTY)

SEND RESULTS TO

Fred Feitel

(NAME)

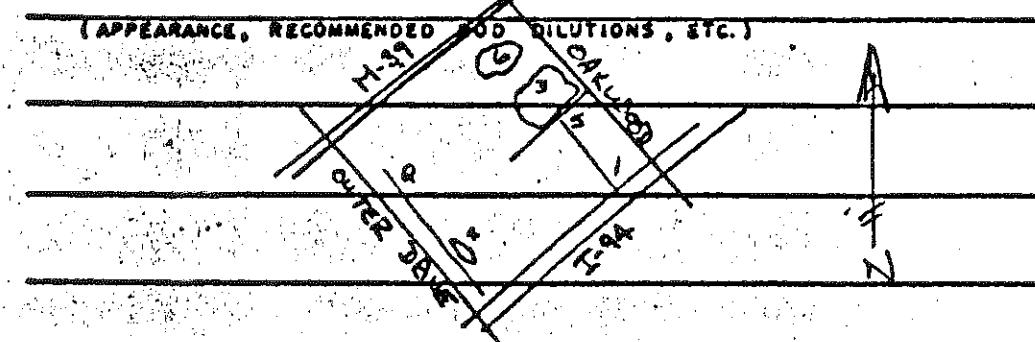
RECEIVING WATER

Quay River

(NAME OF STREAM OR LAKE)

REMARKS

APPEARANCE, RECOMMENDED BOD DILUTIONS, ETC.)



COLLECTED BY

R.J.

I-32197
-36593

RECEIVED BY

DATE RECEIVED

11-22-76

EXAMINER

R.J.

CARD TYPE	STORET NUMBER	DATE & TIME Y Y M M D D T T T T	DEPTH FEET	LAB NUMBER	CONDUIT FLOWMGD	TEMP °C	pH SU	BOD ₅	T.S.S.	TOT-P	NH ₃ -N	OIL	TOT-Cl ⁻
								mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
'P'	/	/	0	00008	50050	00010	00400	00310	00530	00665	00610	00560	00940
1	'D'	, S Ditch off I-94	5947				7.8			2.2			1200
2	'D'	, at Hospital	5948				10.1			5.7			840
3	'D'	, Bridge, P.T.	5948Y9				7.9			1.3			710
4	'D'	, Pond at SW CORNER	594950				8.0			3.2			710
5	'D'	, S. DITCH at ENTRANCE	594951				7.6			.30			6000

"DO NOT PUNCH"
SOURCE DESCRIPTION OF SAMPLE

D.O.	TOT-Zn	TOT-Cy	Cr+6	50
mg/l	µg/l	µg/l	µg/l	
00300	01092	01034	01032	80

1				120	<100
2				110	I
3				40	I
4				110	<10
5				50	<10

T-intercept

TOT-NH ₃	TOT-Cd	Fe	TDS	SO ₄	H ₂ S
µg/l	µg/l	Mg/l	mg/l	mg/l	
01067	01027				
210	10	16,000	4,280	380	NS
300	20	2,600	5,120	160	NS
180	10	6,900	3,440	310	NS
200	10	13,000	3,350	240	NS
90	10	3,800	2,740	140	NS

CHEMICAL ANALYSIS - WASTE WATERS
MICHIGAN WATER RESOURCES COMMISSION

SOURCE

FMC-OAKWOOD

(NAME OF INDUSTRY OR MUNICIPALITY)

Holland

(CITY OR TWP)

W. MI.

(COUNTY)

SEND RESULTS TO

Fred Feitel
(NAME)

RECEIVING WATER

Riv.^{er}

(NAME OF STREAM OR LAKE)

Resource Recovery Division
(DISTRICT OR SECTION)

REMARKS

(APPEARANCE, RECOMMENDED BOD DILUTIONS, ETC.)

COLLECTED BY

RECEIVED BY

DATE RECEIVED

EXAMINER

	CARD TYPE	STORET NUMBER	DATE & TIME Y Y M M D D T T T T	DEPTH FEET	LAB NUMBER	CONDUIT FLOWMGD	TEMP °C	pH ✓	BOD 5 SU	T.S.S. mg/l	TOT-P mg/l	NH3-N mg/l	OIL mg/l	TOT-CL mg/l
P				D	00008	50050	00010	00400	00310	00530	00665	00610	00560	00940
1	D		DUMP AREA	5952				9.1			1.5			540
2	D													
3	D													
4	D													
5	D													

"DO NOT PUNCH"
SOURCE DESCRIPTION OF SAMPLE

D.O.	TOT-Zn	TOT-Cr	Cr + 6
mg/l	µg/l	µg/l	µg/l
00300	01092	01034	01032

LLC
80

, 80, <10,

1				
2				
3				
4				
5				

TOT-Ni	TOT-Cd	Fe	TDS ✓	SO4	H+
µg/l	µg/l	µg/l	mg/l	mg/l	
01067	01027				

100, <10, 4,500, 2940, 270, NS,

Enforcement Status

Type of Action	Date	State / Federal	Result or Status
LOW	9/2/82	state	9/17/82 CR - IC
LOW	6/14/83	state	6/24/83 CR - RTC 6/30/83
LOW	6/22/83	state	7/16/83 CR - RTC 7/18/83
LOW	9/27/83	state	10/5/83 CR - RTC 10/11/83
LOW	11/23/83	state	12/6/83 CR
2d LOW	1/31/84	state	2/15/84 CR - RTC 3/28/84 Pumped leachate into flooded area S of Cell I
LOW	9/11/84	state	CR 4/25/84
LOW	6/21/84	state	CR 6/27/84 RTC 7/24/84

NOTICE OF

DEFICIENCY	10/3/84	Federal	Application Incomplete
LOW	11/21/84	state	CR 11/26/84 RTC 12/17/84
LOW	3/18/85	state	CR 4/1/85 RTC 4/23/85
LOW	10/10/85	state	CR 9/23/85 RTC 10/10/85
LOW	12/18/85	state	CR 1/7/86 RTC 1/15/86
LOW	4/20/86	state	CR 4/16/86 RTC 4/28/86

CR - Company Response

IC - Incompliance

RTC - Return To Compliance



Attachment D

16. Public Complaints

Anonymous	6/11/81	PEAS	Company discharging water to ditch. WCD inspects - uncontaminated water from pit.
Local Citizen	4/18/82	Representative HWD	Hazardous waste received - expressing concerns re: potential for contamination. Dept. responded with presentation taken at site 6/7/82
Local Citizen	9/27/84	Wayne Co. Air	Fugitive Dust Problem - referred to SIS facility - referred to GWQD - staff spoke directly with Mr. Bembe See 10/16/84 from Air Quality

82-01

STATE OF MICHIGAN

NATURAL RESOURCES COMMISSION

COG A MCNEIL
ROBERT HOLMES
E M LATALA
HILARY F SNELL
PAUL H. WENDLER
MARGY H. WHITELEY

JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

STEVENS T. MASON BUILDING
BOX 30029
LANSING, MI 48909
HOWARD A. TURNER, Director

June 7, 1983

Habermash
RECEIVED

JUN 23 1983

GOD-DOMINION DIRECT

Honorable John D. Dingell
U.S. House of Representatives
2221 Rayburn House Office Building
Washington, D.C. 20515

Dear Representative Dingell:

Thank you for your letter of April 25, 1983 concerning an inquiry from the constituent, Mrs. Victoria Hild, 1903 Snow Street, Dearborn, Michigan, 48124. In Mrs. Hild's letter to you, she indicated concern over the location of the Ford Motor Company - Allen Park Clay Mine Landfill which is part of what is used to dispose of hazardous wastes from the Ford Motor Company. This landfill is regulated closely by the U.S. Environmental Protection Agency and the State of Michigan in compliance with the provisions of the Michigan Hazardous Waste Management Act (1979 Public Act 64, as amended).

Ford Motor Company has been issued a hazardous waste disposal facility operating license by the Michigan Department of Natural Resources after careful review of the soils and groundwater (hydrogeology) of the area, proposed waste to be disposed, and public input. After several public hearings and input from a local site review board, the license was issued. The license will expire on October 21, 1986 and will be thoroughly reviewed to determine if modifications are required before it will be reissued.

The area of the landfill that is proposed for disposal of hazardous wastes was carefully evaluated by the company and the Department of Natural Resources to assure that the waste can be safely contained in the landfill without any adverse impact on the environment. Any proposed modification of the operation or management of hazardous wastes at the facility must be approved by the Department of Natural Resources prior to making that change.

Habermash
RECEIVED

JUN 8 1983

GOD-COMPLIANCE 2

Representative Dingell

-2-

June 7, 1983

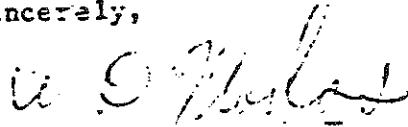
The operating license requires Ford Motor Company to continuously monitor all activities at the landfill including sampling and testing of the surface water, groundwater and air quality in and around the site to assure protection of the environment. Sampling and testing results are reviewed and confirmed by additional sampling by the Environmental Protection Agency and the Michigan Department of Natural Resources. The operating license limits the kind and quantity of waste that can be disposed of in the landfill to assure compatibility with the site.

The company must maintain financial assurance for closing the landfill and to maintain sampling and monitoring systems for a minimum of 15 years after the landfill is closed to assure that any possible malfunction is recognized before damage to the environment can occur.

Any deficiencies found that are in violation of the company's operating license are required to be corrected immediately. Representatives of the Hazardous Waste Division of the Michigan Department of Natural Resources conduct inspections of the facilities at least four times per year. The Environmental Protection Agency may make additional inspections. We believe the facilities are very well regulated and should not create adverse impact on the surrounding environment.

If you would like further information regarding any aspect of the Department of Natural Resources' regulation of the Allen Park Clay Mine Landfill, I would be happy to provide it.

Sincerely,


James F. Cleary
Acting Director

cc: Ken Burda

October 16, 1984

Mr. Robert J. Bemben
1151 Linden
Dearborn, MI. 48124

Dear Mr. Bemben:

Your letter of September 27, 1984 was received, and your concern and insight involving the Ford Motor Company landfill is to be commended.

First of all, be assured that this site is being inspected on a regular basis. This year has seen an increase in truck traffic using the facility, mainly due to the excavations at the Ford Rouge complex, and also because of additional clay trucks coming onto the facility to expedite clay capping in some areas. This increase in traffic has at times caused problems with tracking of material onto Oakwood Street, as you observed.

The facility is utilizing a full time flushing truck, and any material accumulating along the curbs is to be shoveled daily. We will enforce these procedures. There has been a delay in implementing a wheel wash. This has primarily occurred because of conflicting opinions on requirements for handling the spent water. Hopefully these differences will be worked out soon.

Fugitive and windborne dust has also been addressed. Unpaved roads are watered and treated with dust inhibitors, as are the open off-road areas. Rapid clay capping is also being enforced.

We certainly share in your concerns and will inspect the site with increased regularity. Your interest is appreciated, and if you should have any further questions, feel free to phone me at 224-4677.

Sincerely,

Michael D. Maillard
Enforcement/Engineering Director

MDM:RZ:saw

cc: Mr. T. Shoens

Groundwater Monitoring Data
Water Quality Parameters

Plant Allen Park Clay Mine Sampling Date 4-26-83

	Well # 45	Well # 55	Well # 105	Well #
Static Water Elevation (Ft)	589.60	593.69	591.01	
Up- or Downgradient (U,D)	N/A	N/A	N/A	
Chloride	100	650	94	
Iron	.24	3.7	1.8	
COD	270	200	220	
TOC	81	68	64	
Specific Conductance	2006	1714	1858	
pH	7.5	84	74	
Temperature	13.5°C	18.3°C	10.2	
Sulfate	180	150	950	
Sodium				
Ammonia Nitrogen				
Nitrogen, Nitrate				
Nitrogen Nitrite				
Magnesium				
Lead				
Bicarbonate				
Total Chromium				
Calcium				

RECEIVED

JUN 2 1983

GOD-DETROIT DIST.

Groundwater Monitoring Data
Water Quality Parameters

Plant Illinoian Park Clay Mine

Sampling Date 4-26-83

	<u>Aaron Dixie</u> Well #	<u>Steve Dzark</u> Well #	Well #	Well #
<u>Static Water Elevation (Ft)</u>	NA	NA		
<u>Up- or Downgradient (U,D)</u>	NA	NA		
<u>Chloride</u>	590	210		
<u>Iron</u>	.65	.56		
<u>COD</u>	80	36		
<u>TOC</u>	24	33		
<u>Specific Conductance</u>	1800	1512		
<u>pH</u>	7.2	6.9		
<u>Temperature</u>	11.2	10.3		
<u>Sulfate</u>	560	210		
<u>Sodium</u>				
<u>Ammonia Nitrogen</u>				
<u>Nitrogen, Nitrate</u>				
<u>Nitrogen Nitrite</u>				
<u>Magnesium</u>				
<u>Lead</u>				
<u>Bicarbonate</u>				
<u>Total Chromium</u>				
<u>Calcium</u>				

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JUN 2 1983

GQD-DETROIT DIST.

CLCW**HYDRO REL ARCH SERVICES**
Water Management Division
Clow Corporation408 Auburn Avenue
Pontiac, MI 48058313 334-1630
313 334-4747

3-15-83

SERVEY
FBI 99 EIN S.

Ford Motor Company
SSECO
Parkland Towers, Suite 628W
One Parklane Blvd.
Dearborn, MI 48126
Attn: Kathy Burge

Sample received: 2-23-83

Hydro Number: 61804

Client I.D. Allen Park Clay Mine
Sediment Pond

Phenol by GC, ug/l	<10
Naphthalene, ug/l	<10
Cadmium, Cd, mg/l	< 0.01
Total Chromium, Cr, mg/l	< 0.02
Lead, Pb, mg/l	< 0.05

Linda Deans
Linda Deans
General Laboratory Manager

 Gr idwater Monitoring Data 
 Drinking Water Parameters

Plant Allen Park Clay Mine Sampling Date 10-26-82

4th Quarter
Sampling

	Well # 2-D	Well # 5-D	Well # 102-D	Well # 103-D
Static Water Elevation (Ft)	600.68	604.84	599.15	601.26
Up- or Downgradient (U,D)	U	U	D	D
Arsenic	ND .001	ND .001	ND .001	ND .001
Barium	ND 0.1	ND .05	ND 0.1	ND .02
Cadmium	ND .003	ND .003	ND .003	ND .003
Chromium	.016	.019	.008	ND .005
Fluoride	0.9	1.0	1.0	1.0
Lead	.007	.091	<.007	<.007
Mercury	ND .0002	ND .0002	ND .0002	ND .0002
Nitrate	ND 0.01	ND 0.01	ND 0.01	ND .01
Selenium	ND .01	ND .01	ND .01	ND .01
Silver	.008	ND .005	.005	.007
Endrin ug/l	ND 0.10	ND 0.10	ND 0.10	ND .10
Lindane ug/l	ND 0.10	ND 0.10	ND 0.10	ND .10
Methoxychlor ug/l	ND 0.50	ND 0.50	ND 0.50	ND .50
Toxaphene ug/l	ND (1)	ND (1)	ND (1)	ND (1)
2, 4-D ug/l	ND 0.10	ND 0.10	ND 0.10	ND .10
2, 4, -5-TP Silvex ug/l	ND .050	ND .050	ND .050	ND .050
Radium (pCi/l)	<5	<5	<5	<5
Gross Alpha (pCi/l)	<5	<5	<5	<5
Gross Beta (pCi/l)	<8	<8	<8	<8
Coliform Bacteria (Colonies/100 ml)	<2.2	4 *	<2.2	5.1 *

Units are mg/l unless otherwise noted.

* VALUE EXCEEDS LEVEL IN APPENDIX III

** LEAD VALUE EXCEEDS LEVEL IN APPENDIX III

Groundwater Monitoring Data
Water Quality Parameters

Plant Allen Park Clay Mine Sampling Date 10-26-82

4th Quarter
Sampling

	2-D Well #	5-D Well #	102-D Well #	103-D Well #
Static Water Elevation (Ft)	600.68	604.84	599.15	601.26
Up- or Downgradient (U,D)	U	U	D	D
Chloride	170	140	140	130
Iron	0.45	.88	1.2	6.0
Manganese	.024	.008	.016	.037
Phenols	ND .004	ND .004	ND .004	ND .004
Sodium	240	120	200	160
Sulfate	880	70	810	840

Units are mg/l unless otherwise noted.

GROUNDWATER MONITORING DATA
POLLUTION INDICATIVE PARAMETERS

Plant Allen Park Clay Mine

Sampling Date 10-26-82

4th Quarter
Sampling

	2-D Well #	5-D Well #	102-D Well #	103-D Well #
Static Water Elevation (Ft)	600.68	604.84	599.15	601.26
Up- or Downgradient (U,D)	U	U	0	D
pH (Units)	8.7	10.2	8.7	8.7
	8.7	10.2	8.7	8.7
	8.7	10.2	8.7	8.7
	8.7	10.2	8.7	8.7
Specific Conductance (umhos/cm)	2256	1785	2393	2352
	2244	1800	2398	2308
	2252	1791	2358	2294
	2250	1860	2378	2288
TOC (mg/l)	15	21	16	26
	20	20	24	21
	17	9	23	22
	16	33	16	21
TOX (ugm/l)	.01	.021	.015	.01
	.017	.041	ND .01	.01
	.026	.025	.016	.014
	.038	.032	.013	ND .01

Gro Water Monitoring Data R
Drinking Water Parameters

Plant Alien Park Clay Mine Sampling Date 10-26-82

4th Quarter
Sampling

	Well #	Well #	Well #	Well #
Static Water Elevation (Ft)	104.0			
Up- or Downgradient (U,D)	D			
Arsenic	ND .001			
Barium	ND 0.1			
Cadmium	ND .003			
Chromium	.013			
Fluoride	1.0			
Lead	.019			
Mercury	ND .0002			
Nitrate	.25			
Selenium	ND .01			
Silver	.012			
Endrin ug/l	ND .10			
Lindane ug/l	ND .10			
Methoxychlor ug/l	ND .50			
Toxaphene ug/l	ND (1)			
2, 4-D ug/l	ND .10			
2, 4, -5-TP Silvex ug/l	ND .050			
Radium (pCi/l)	<5			
Gross Alpha (pCi/l)	<5			
Gross Beta (pCi/l)	11			
Coliform Bacteria (Colonies/100 ml)	9.2 *			

Units are mg/l unless otherwise noted.

* VALUE EXCEEDS LEVEL IN APPENDIX III

Groundwater Monitoring Data
Water Quality Parameters

Plant Green Park Clay Mine Sampling Date 10-26-82

4th Quarter

Sampling

	104-D Well #	Well #	Well #	Well #
Static Water Elevation (Ft)	604.12			
Up- or Downgradient (U.D)	D			
Chloride	440			
Iron	52			
Manganese	10			
Phenols	ND .004			
Sodium	210			
Sulfate	1200			

Units are mg/l unless otherwise noted.

**GROUNDWATER MONITORING DATA
POLLUTION INDICATIVE PARAMETERS**

Plant Allen Park Clay Mine

Sampling Date 10-26-82

4th Quarter
Sampling

	104-D Well #	Well #	Well #	Well #
<u>Static Water Elevation (Ft)</u>	604.12			
<u>Up- or Downgradient (U,D)</u>	D			
<u>pH (Units)</u>	8.3			
	8.2			
	8.2			
	8.2			
<u>Specific Conductance (umhos/cm)</u>	2898			
	2862			
	2838			
	2871			
<u>TOC (mg/l)</u>	11			
	15			
	10			
	12			
<u>TOX (ugm/l)</u>	.024			
	.018			
	.010			
	.020			

RECEIVED

8-1983

S.E. MICHIGAN REGION
DIVISION OFFICE

Groundwater Monitoring Data
Water Quality Parameters

Plant Allen Park Clay Mine Sampling Date 10-26-82

4th Quarter
Sampling

	Well #7-D	Well #10-D	101-D Well #	105-D Well #
Static Water Elevation (Ft)	586.35	596.63	599.77	603.5
Up- or Downgradient (U,D)	D	D		
Chloride	140	140	140	140
Iron	3.4	5.9	3.8	4.3
Manganese				
Phenols				
Sodium	260	210	240	200
Sulfate	880	1600	980	1100

Units are mg/l unless otherwise noted.

COD	260	230	250	110
Ammonia Nitrogen	.63	.55	.50	.41
Nitrogen, Nitrate	.08	.04	.07	ND .01
Nitrogen Nitrite	.02	.01	ND .01	ND .01
TOC	49	21	43	9
Lead	.437	.05	.02	.02

Groundwater Monitoring Data
Water Quality Parameters

Plant Alex Park Clay Mine Sampling Date 10-26-82

4th Quarter
Sampling

	7-S Well #	5-S. Well #	10-S Well #	Well #
Static Water Elevation (Ft)	588.2	591.02	589.71	
Up- or Downgradient (U,D)	NA	NA	NA	
Chloride	99	400	88	
Iron	1.2	5.6	.21	
Manganese				
Phenols				
Sodium	110	340	200	
Sulfate	970	130	1000	

Units are mg/l unless otherwise noted.

COD	34	220	210	
Ammonia Nitrogen	.65	.29	.39	
Nitrogen, Nitrate	.01	.01	ND .01	
Nitrogen Nitrite	.01	ND .01	ND .01	
TOC	4	38	32	
Lead	.024	<.007	<. 01	

Sediment Pond

Phenol	ND .004	
Chromium	< .007	
Cadmium	ND .003	
Lead	.010	
Naphthalene	ND 5.0 ug/l	

Groundwater Monitoring Data
Drinking Water Parameters

Plant Allen Park Clay Mine Sampling Date 7-14-82

3rd Quarterly
Sampling

	RCRA Well # 2-D	RCRA Well # 5-D	RCRA Well # 102-D	RCRA Well # 103-D
Static Water Elevation (Ft)	600.68	605.45	601.68	601.23
Up- or Downgradient (U,D)	U	U	D	D
Arsenic	ND 0.00	ND 0.021	ND 0.02	ND 0.02
Barium	< 0.02	ND 0.02	ND 0.02	ND 0.02
Cadmium	0.023	ND 0.003	< 0.02	0.02
Chromium	0.2	0.16	0.056	0.12 - 0.22
Fluoride	5.0	1.0	1.0	1.0
Lead	1.2	0.21	ND 0.01	ND 0.01
Mercury	ND 0.001	ND 0.005	ND 0.002	ND 0.001
Nitrate	0.01	0.25	0.27	0.025
Selenium	ND 0.02	0.01	ND 0.01	ND 0.01
Silver	0.02	0.002	0.054	0.002
Endrin	ND 0.0	ND 0.10	ND 0.0	ND 0.0
Lindane	ND 0.0	ND 0.12	ND 0.15	ND 0.0
Methoxychlor	ND 0.001	ND 0.050	ND 0.05	ND 0.001
Toxaphene	ND 0.0	0.10	ND 0.0	ND 0.0
2, 4-D	ND 0.00	0.010	ND 0.00	ND 0.00
2, 4, -5-TP Silvex	ND 0.05	0.050	ND 0.05	ND 0.05
Radium (pCi/l)	< 5	< 5	< 5	< 5
Gross Alpha (pCi/l)	< 5	< 5	< 5	< 5
Gross Beta (pCi/l)	< 5	ND (4)	ND (4)	ND (4)
Coliform Bacteria (Colonies/100 ml)	< 4	* < 4	* < 4	* < 4

Units are mg/l unless otherwise noted.

* Numerous NON-specific bacteria (NSE) were observed to be present. Due to the number of (NSE) the amount used for ANALYSIS was reduced to 25 ml.

Groundwater Monitoring Data
Water Quality Parameters

Plant Allen Park Clay Tunes Sampling Date 7-14-82

	RCRA 2-D Well #	RCRA 5-D Well #	RCRA 102-D Well #	RCRA 103-D Well #
Static Water Elevation (Ft)	600.68	605.45	601.68	601.23
Up- or Downgradient (U,D)	U	U	D	D
Chloride	170	150	140	140
Iron	.84	1.2	5.1	.92
Manganese	222	0.015	0.041	.017
Phenois	224	112	12.52	.003
Sodium	1	88	37	75
Sulfate	1022	200	960	790

Units are mg/l unless otherwise noted.

Sediment Pond

<u>Phenol</u>	<u>.007 mg/l</u>
<u>Cadmium</u>	<u>(ND) .003 mg/l</u>
<u>Lead</u>	<u>.01 mg/l</u>
<u>Naphthalene</u>	<u>(ND) 5 ug/l</u>
<u>Chromium</u>	<u>.006 mg/l</u>

**GROUNDWATER MONITORING DATA
 POLLUTION INDICATIVE PARAMETERS**

Plant Allen Park Clay Mine

Sampling Date 7-14-82

	<u>RCRA</u> <u>2-D</u> Well #	<u>RCRA</u> <u>5-D</u> Well #	<u>RCRA</u> <u>102-D</u> Well #	<u>RCRA</u> <u>103-D</u> Well #
Static Water Elevation (Ft)	600.68	605.45	601.68	601.23
Up- or Downgradient (U,D)	U	U	D	D
pH (Units)	7.75	7.44	7.20	7.70
	7.76	7.50	7.20	7.70
	7.73	7.67	7.20	7.70
	7.76	7.60	7.20	7.70
Specific Conductance (umhos/cm)	3054	1990	2524	2441
	2983	1912	2664	2468
	2980	1939	2651	2450
	2875	1954	2630	2438
TOC (mg/l)	3	21	2	12
	5	18	15	14
	5	2	17	14
	5	20	19	5
TOX (mg/l)	.029	.061	.035	.010
	.033	.032	.010	.054
	.046	.024	.010	.010
	.027	.026	.010	.010
Temperature	55°F	56°F	57°F	59°F

Groundwater Monitoring Data
Drinking Water Parameters

Plant Aiken Park Clay Mines Sampling Date 7-14-82

RCRA

	Well # 104-D	Well # 7-D	Well # 10-D	Well # 101-D
Static Water Elevation (Ft)	604.32	582.06	588.03	597.81
Up- or Downgradient (U,D)	D	N/A	N/A	N/A
Arsenic	ND 0.01			
Barium	ND 0.02			
Cadmium	ND 0.01			
Chromium	.012			
Fluoride	0.9			
Lead	ND 0.01			
Mercury	ND 0.0002			
Nitrate	0.23			
Selenium	ND 0.01			
Silver	- - -			
Endrin	ND 0.10			
Lindane	ND 0.10			
Methoxychlor	ND 0.50			
Toxaphene	ND 1.0			
2, 4-D	ND 0.10			
2, 4, -5-TP Silvex	ND 0.50			
Radium (pCi/l)	<5			
Gross Alpha (pCi/l)	ND (3)			
Gross Beta (pCi/l)	ND (4)			
Coliform Bacteria (Colonies/100 ml)	8 *			

Units are mg/l unless otherwise noted.

* Numerous NCN-specific bacteria were observed to be present.
 Due to the number of (NSB), the aliquot used for analysis
 was reduced to 25 ml's

Groundwater Monitoring Data
Water Quality Parameters

Plant Allen Park Clay Mines Sampling Date 7-14-82

RCRA				
	104-D Well #	7-D Well #	10-D Well #	101-D Well #
Static Water Elevation (Ft)	604.32	582.06	588.03	597.81
Up- or Downgradient (U,D)	0	N/A	N/A	N/A
Chloride	160	160	160	150
Iron	9.9	20	.52	.94
Manganese	.042			
Phenols	1.2 .00			
Sodium	88			
Sulfate	1300	1000	1900	1070

Units are mg/l unless otherwise noted.

**GROUNDWATER MONITORING DATA
POLLUTION INDICATIVE PARAMETERS**

Plant Allen Park Clay Mine

Sampling Date 7-14-82

	RCRA 1040 Well #	7-D Well #	10-D Well #	101-D Well #
Static Water Elevation (Ft)	604.32	582.06	588.03	597.81
Up- or Downgradient (U,D)	D	N/A	N/A	N/A
pH (Units)	7.70	10.00	7.94	7.62
	7.68			
	7.68			
	7.67			
Specific Conductance (µmhos/cm)	2817	2664	1238	2207
	2885			
	2852			
	2885			
TOC (mg/l)	6	21	68	44
	12			
	14			
	12			
TOX (mg/l)	.010			
	.024			
	.010			
	.048			
Temperature	57°F	54°F	55°F	69°F
TOD		160	300	210

Groundwater Monitoring Data
Water Quality Parameters

Plant Allen Park Clay Mine Sampling Date 7-14-82

	105-D Well #	2-S Well #	5-S Well #	10-S Well #
Static Water Elevation (Ft)	604.00	588.50	591.19	589.80
Up- or Downgradient (U,D)	N/A	N/A	N/A	N/A
Chlorine	160	100	180	220
Iron	3.4	0.29	2.5	0.52
Manganese				
Phenols				
Sodium				
Sulfate	1300	1100	160	1100

Units are mg/l unless otherwise noted.

**GROUNDWATER MONITORING DATA
 POLLUTION INDICATIVE PARAMETERS**

Plant Allen Park Clay Mine

Sampling Date 7-14-82

	<u>105-D</u> Well #	<u>2-5</u> Well #	<u>5-5</u> Well #	<u>10-5</u> Well #
Static Water Elevation (Ft)	604.00	588.50	591.19	589.80
Up- or Downgradient (U,D)	N/A	N/A	N/A	N/A
pH (Units)	7.0	7.73	7.60	8.40
Specific Conductance (µmhos/cm)	3084	2399	2345	2522
TOC (mg/l)	10	22	15	9
TOX (mg/l)				
Temperature	53°F	59°F	56°F	55°F
COO	41	262	88	420

Att. Annex E
Inspections

Page 1 of 4

<u>Date</u>	<u>Inspector</u>	<u>Conclusions</u>
4/16/76	WCHD/MNDR	Paded container held water (dry bank), water not leveled, poor drainage
8/19/76	WSHD/MNDR	" clay bowl held water"
11/22/76	" "	cover eroded, lack of cover water seepable, numerous leachate springs, northern pit with leadite
5/26/77	MNDR	Contaminated water in ditches lack of cover
12/2/77	First SW (Act 87) license issued	
8/23/78	MNDR	leachate near I-94 filling into water
7/31/80	WCHD	Potential dust problem filling near ditch no problem noted
8/28/80	"	filling near ditch no problem
10/1/80	WCHD	filling into water no problem
11/16/80	"	filling into water no problem
12/16/80	"	"
2/5/81	"	"
3/10/81	"	Ditch construction starting leaching on west south
3/30/81	"	slopes, defined refuse
4/16/81	"	water for RCRA area transfer via tankers & brought to Roger
5/22/81	"	water in RCRA pit removed no problem noted
6/11/81	"	W. Doctor at b. - D. 11/6/81

6/19/81	WCHD (Local)	Side installed from sediment basin along east edge and $\frac{3}{4}$'s of the south edge.
7/22/81	WCHD "	Cracks & fraying in dike, side installation proceeding
8/13/81	WCHD "	Leachate spring SE corner of facility. Dullies in cover. Eroded cover, fuel oil spill near sedimentation basin.
9/25/81	WCHD "	Leaching on west side, contained water pooled on-site
11/4/81	WCHD "	Leaching in the northwest area. Eroded areas in cover.
3/30/82	WCHD "	Leaching near Southfield Freeway
4/29/82	WCHD "	Lack of cover, leaching on west side
6/11/82	WCHD "	Leaching on west side
9/2/82	C. Riley (State)	RCRA violations (ie washbasin plan, inspection log, post-closeout plan incomplete, etc)
3/7/83	WCHD (Local)	SW area dust problem
9/2/83	L.A.B. Larson (State)	Act 64 violations (warning signs missing, run-on not diverted, GW monitoring & surface water monitoring not in AW permit).
3/2/83 - 10/23/83	WCHD (Local)	Variety of inspections - no problems
6/1/83	L. Arribalzaga (State)	RCRA violations (warning signs missing, run-on run-off not managed properly, inspection form to be revised)
		Act 64 violations (GW monitoring, leachate monitoring)



- 9/22/83 L. Aubuchon (State) Act 64 lack of daily cover
- 10/24/83 WCHD Grade out of mud onto Oakwood Rd.
- 11/17/83 L. A. B. cho (State) Act 64 lack of daily cover, hole in fence, inspection pt not properly completed.
- 3/28/84 L. Aubuchon (State) Act 64 - In compliance
- 10/25/83 - 4/16/84 " (State) Various inspections, no problems
- 4/17/84 WCHD Minor leaching noted
- 6/21/84 L. Aubuchon (State) Act 64 - Lack of warning signs, insufficient cover, inadequate grading
- 6/21/84 " (State) RCRA - Lack of warning signs
- 7/24/84 WCHD (local) Leachate springs along outer Dike repaired, minor leak along dike base.
- 8/22/84 " (local) Repairing leachate outbreaks along outer Dikes
- 9/25/84 L. Aubuchon (State) Act 64 - In compliance
- 11/20/84 " " Act 64 - Lack of Daily cover, contingency plan not updated, training deficiency
- 3/13/85 " " Act 64 - Lacking required info for contested case settlement, keep leachate level down, monitoring (CD7418) not performed
- 8/23/84 - 7/17/85 WCHD (local) Minor problems only noted during inspections
- 7/18/85 " " Leachate entered drainage ditch

5/21/85	L. AuB-chen	(State)	Act 64. In Compliance
5/21/85	L. AuB-chen	"	RCRA - "
9/4/85	L. AuB-chen	"	Act 64 - Leachate levels high, Berms/dikes inadequate, mantained.
12/16/85	L. AuB-chen	"	RCRA - Warning sign missing, need fence repair, diversion berms inadequate,
3/25/86	L. AuB-chen	"	Act 64 - warning signs, training, regular pumping of leachate from Cell I

5/86 WCHD indicates concerns on the large amount of water trapped in fill area and the large number of leachate seeps which are continuing.

Wayne County Health Department - Division of Environmental Health

SOLID WASTE MANAGEMENT EVALUATION REPORT

Name & Type of Facility

FORD MOTOR Co. ALLEN PARK CLAY MINE

Location

ALLEN PARK, MI @ OAKWOOD & I-94

Operator/Property Owner

EOKERBLISH / FOMCO

Phone #

ITEMS REQUIRED IN ALL FACILITIES

Plan on File On-Site Roads
 Restricted Access Traffic Flow
 Conformity to Plan Attendant
 Burning Restricted Salvaging

ITEMS REQUIRED IN (TR, PP)

Container/Bldg. Const. Daily Log
 Container Removal Overnite Storage
 Preprocessing Storage Storage Area
 Dumping Area Bldg. Enclosed
 Emergency Plan Noise/Vibration

ITEMS REQUIRED IN (TR, PP, CC)

Fence & Screening
 Signs-Hrs. of Operations

ITEMS REQUIRED IN (SL, TR, PP)

Hazardous Mat'l. & Liquids Equipment
 Vermin Control Equipment Maintenance
 Paper Confined General Maintenance
 Fire Protection Dust & Odor Control

ITEMS REQUIRED IN (SL)

Daily/Final Cover Cover Maintenance
 Completion of Area Spreading Refuse
 Surface Water Drainage Compaction
 Protection of Ground & Surface Water
 Cell Volumes

REMARKS

- ① LACK OF COVER MATERIAL OVER MUCH OF "OLD FILL SECTION"
- ② GULLY EROSION ALONG NORTH & WEST-NORTHWEST SIDE SLOPES, ALSO ALONG I-94 X-WAY.
- ③ NUMEROUS LEACHATE SPRINGS ALONG WEST-NORTHWEST SLOPE
- ④ NO DITCHES IN THE N-NE section, E-NE section. IT'S QUESTIONABLE WHETHER SURFACE WATER RUN-OFF ALONG WEST-NORTHWEST PERIMETER REACHES DITCHES
- ⑤ THE NORTHERN FILL PIT CONTAINS AT LEAST 3-4' OF LEACHATE/RUN-OFF.

SKETCH

(6) A SWATH NORTH OF ENTRANCE RD HAS BEEN PARTIALLY cleared of vegetation prior to development

(7) NUMEROUS water samples were TAKEN

Approved

Not Approved

Date

Nov 22, 1976

Time

Pending

X

Interviewee

Inspector

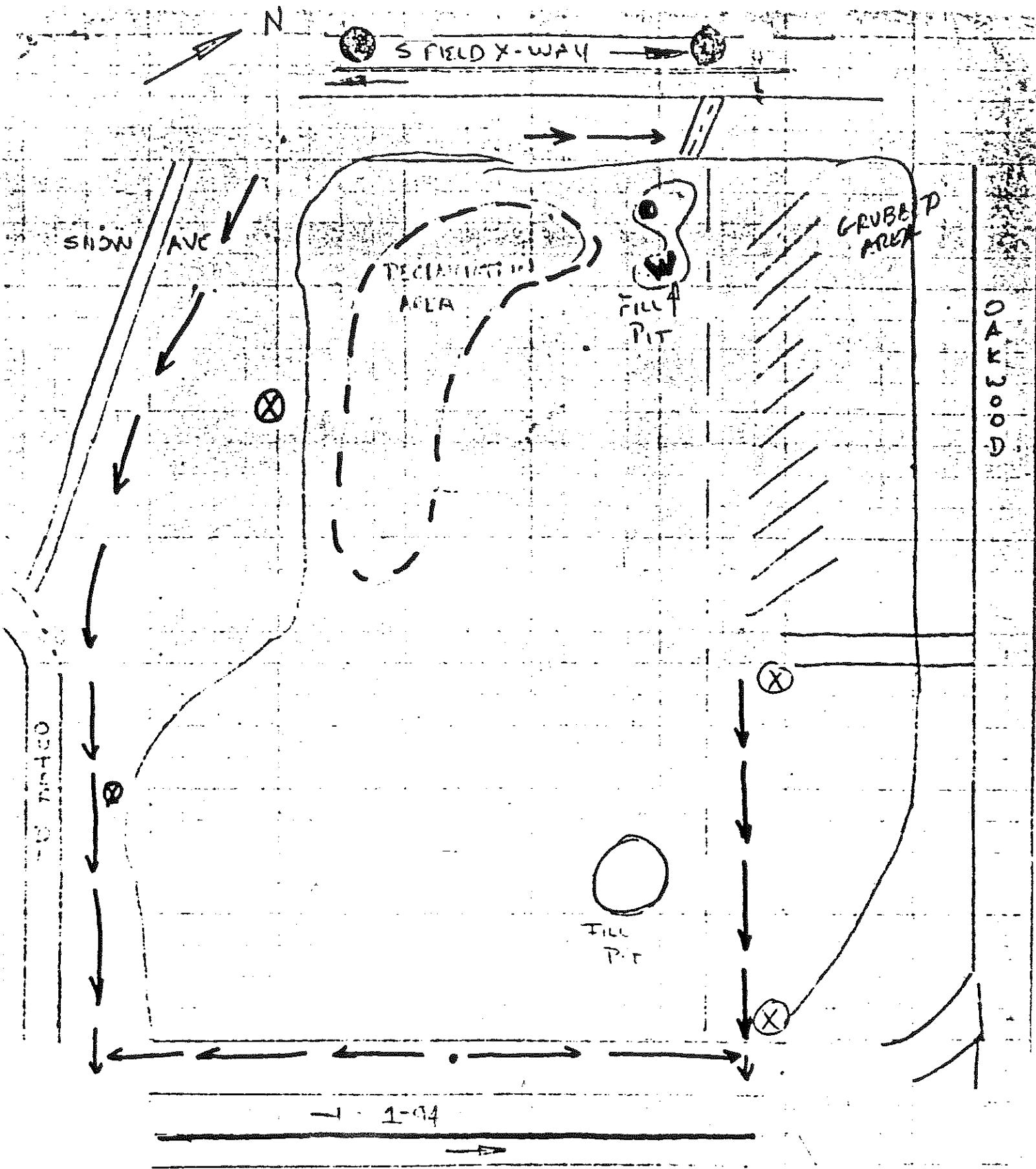
D. VILNIUS WELLS

F. FEIRL

DNR-RRD

Key: () Compliance, () Non-Compliance,
 (-) Does not apply,

(SL) Sanitary Landfill, (TR) Transfer Facility, (PP) Processing Plant
 (CC) Collector Center



LEGEND : → DITCHES
⊗ SAMPLE LOCATIONS

Wayne County Health Department - Division of Environmental Health

SOLID WASTE MANAGEMENT EVALUATION REPORT

Page 8 of 3

Name & Type of Facility Allen Park Clay Mine LF
 Location Oakwood Blvd., Allen Park
 Operator/Property Owner Ford Motor Co. Phone #

ITEMS REQUIRED IN ALL FACILITIES

Plan on File On-Site Roads
 Restricted Access Traffic Flow
 Conformity to Plan Attendant
 Burning Restricted Salvaging

ITEMS REQUIRED IN (SL, TR, PP)

Hazardous Mat'l. & Liquids Equipment
 Vermin Control Equipment Maintenance
 Paper Confined General Maintenance
 Fire Protection Dust & Odor Control

ITEMS REQUIRED IN (TR, PP)

Container/Bldg. Const. Daily Log
 Container Removal Overnite Storage
 Preprocessing Storage Storage Area
 Dumping Area Bldg. Enclosed
 Emergency Plan Noise/Vibration

ITEMS REQUIRED IN (SL)

Daily/Final Cover Cover Maintenance
 Completion of Area Spreading Refuse
 Surface Water Drainage Compaction
 Protection of Ground & Surface Water
 Cell Volumes

ITEMS REQUIRED IN (TR, PP, CC)

Fence & Screening
 Signs-Hrs. of Operations

REMARKS

SKETCH

- (A) The perimeter drainage ditch has been diverted to the sediment basin.
- (B) A sediment delta has formed N of the Sediment Basin (where interior drainage was pumped out) and effectively blocked the perimeter ditch.
Clean it out. on the
- (C) The seed in the ditches and slopes of the fill is doing good.
- (D) Gullies forming along the slope of the drainage ditch (perimeter) must be repaired, seeded and the associated sediment deltas cleaned out.
- (E) "Fuel oil" has been spilled near the sediment basin. Residue from it can get into surface drainage; therefore, clean up the contaminated soil.

Approved Not Approved Pending
 Date 9-25-81 Time 10:55 Interviewee R. Rely
 Inspector John C. Thomas

Key: (✓) Compliance, (✗) Non-Compliance,
 (-) Does not apply,

(SL) Sanitary Landfill, (TR) Transfer Facility, (PP) Processing Plant
 (CC) Collector Center

RECEIVED

AUG 14 1985

SANITARY LANDFILL: TYPE II TYPE III OTHER

GOD DETROIT DIST.

NAME	FACILITY	FACILITY NO.
Allen Park Clay Mine Landfill 5-99		812-000001
LOCATION:	Main Roads - Section No. - Township - City - County	
NAME OF OPERATOR	Allegro Ford Motor Co.	NAME OF LICENSEE
STATUS:	<input checked="" type="checkbox"/> Open & Licensed <input type="checkbox"/> Closed & Inspecting <input type="checkbox"/> Unlicensed	
RESTRICTIONS/STIPULATIONS TO CONSIDER DURING INSPECTION		

(C) = Compliance (N) = Noncompliance (-) = Does Not Apply

C	A. Protection of Surface Waters	REMARKS: - A wet spot was found at the base of the slope south end. Rusty colored trails of water were found on the north side of the perimeter drainage ditch (south side).
C	B. Hazardous Material/Liquids/Sewage Materials Prohibited for Disposal	- Significant gallies are beginning to form on the western slope north end.
C	C. Surface Water Drainage	- The northern edge of Cell #4, sunk about 7', it is a crescent shape 250'x50'.
C	D. Period and Adequacy of Cover	- They are installing a temporary leachate pipeline along out side of Cell #3 from the sump (Cell #3) to the discharge along I-94.
C	E. Completion of Area/Final Coverage	- They are still filling on top of the site.
C	F. Compaction	- They plan to start dumping into Cell #3, by 7-24-85.
C	G. Leachate Control/Management	- A contractor should be agree within 2 weeks to correct erosion problems and seed selected areas.
C	H. Engineering Plans, Hydrogeologic Evaluation & Construction Certification	
C	I. Operations Conform to Plan & License Stipulations	
C	J. Vermin Control/Bird Control	
C	K. Blowing Debris, Dust & Odor Control	
C	L. Gas Migration	
C	M. Fire Protection and Restriction of Burning	
C	N. Equipment Adequacy	
C	O. Restricted Access/Attendant	
C	P. Traffic Flow	
C	Q. Salvaging/Scavenging	
C	R. Noise Level	
C	S. Fence/Screening Maintenance	

.pection item definitions are on back of this form.

ISON REVIEWED

REPRESENTED BY	Jim Brennan w/ Victor Abrahams (w/cont)	DATE	TIME OF INSPECTION
WYTHE COUNTY DEPT. OF HEALTH	8-5-07-18	1:35 p.m.	

Facility Management Plan
Attachment 20 Summary
Ford Allen Park Clay Mine
Allen Park
MID980568711

RECEIVED

APR 14 1986

Background

SOLID WASTE BRANCH
U.S. EPA, REGION V

Notification and Part A submitted on November 17, 1980.

Ford Allen Park Clay Mine is a captive landfill facility for Ford Motor Co. located in the City of Allen Park, Wayne County, Michigan. The total site is approximately 260 acres consisting of 183 acres of solid waste landfill, 17 acres of hazardous waste landfill, with the remainder being greenbelt and easements. The original Part A filed with EPA included landfilling of K061 (electric furnace emission control dust) and K087 (decanter tank tar sludge from coking operations). On October 22, 1982, MDNR issued a Act 64 operating license to Ford Allen Park Clay Mine. Ford contested many provisions of the operating license. Ford and MDNR are currently working towards resolution of the contested portions of the Act 64 resolution of the contested portions of the Act 64 operating license.

On January 16, 1984, their Part B was called in by EPA. Ford submitted the Part B to EPA on July 10, 1984. The Part B included the addition of waste types F006, D006, D007, D008 for disposal in the landfill.

EPA sent corrective action letter to Ford Allen Park on April 23, 1985. Ford submitted their response to corrective action letter on May 30, 1985. The response indicated that they have solid waste management units in the form of closed landfill cells and that releases had occurred by leachate seeping through the cover systems to surface waters. The submittal also indicates that measures to prevent further releases by constructing a perimeter clay dike around the landfill and tying into the clay cover and improving site drainage were completed in 1982. Ford has requested groundwater monitoring waivers for both RCRA and Act 64. EPA issued a partial waiver of interim status groundwater monitoring in December, 1985. At this point it appears that EPA and MDNR will not require monitoring of the artesian aquifer. However, some monitoring of the upper clay layer for lateral migration from the landfill may be required.

Environmental Significance

The facility is within the limits of the City of Allen Park and is bordered on the east by I-94, on the west by M-39, and a hospital to the southwest. The facility is located in an area which is highly populated and includes industrial and residential zoning.

There have been complaints from local residents regarding fugitive dust emissions and trackout from the facility.

COPY 2

Ford's response to the EPA corrective action letter indicates that leachate from closed landfill cells was released to surface waters on the site prior to 1982. The company stated that action was taken to prevent further releases of leachate, however, they did not indicate that any remedial actions to determine the extent of any contamination and to clean it up were taken.

There is quite a bit hydrogeological information on this site. Much of the work has been done by Ford to support their request for a groundwater monitoring waiver. This work has confirmed the extensive clay overlying the artesian aquifer. It appears that groundwater monitoring of the artesian aquifer will be waived.

Recommendations

A preliminary assessment and site investigation (PA/SI) should be carried out for this facility. During the PA, a thorough file search needs to be completed to document past problems from solid waste management units at the facility and what measures were taken to correct them. The site investigation should include inspection and sampling program to determine the location and extent of contamination, if any, from releases of hazardous wastes or hazardous constituents at the facility. MDNR plans to perform the PA/SI work for this facility by May 1986. At that time, the attachment 20 checklist will be completed, recommendations for further investigation work will be provided, if necessary, and recommendations for permitting or enforcement action will be outlined.





RECEIVED

AUG 22 1985

Ford Motor Company

SWB - AIS
U.S. EPA REGION V
3001 Miller Road
Dearborn, Michigan 48121

August 20, 1985

RCRA Activities
Part B Permit Application
U.S. EPA Region
P.O. Box 3587
Chicago, Illinois 60690-3587

ATTENTION: 5HS-13

Subject: Ford Allen Park Clay Mine
Part B Permit Application
MID 980568711

The May 30, 1985 submittal concerning Corrective Action Requirements inadvertently omitted the appropriate signature on page 370. Enclosed please find four copies of the amended signature page which has been paginated 370A.

Yours very truly,

David S. Miller

David S. Miller
Mining Properties Department

DSM:pf

Enclosures

16

COPY 2

3. For the units noted in Number 1 above and also those hazardous wasteunits in your Part B application, please describe for each unit any data available on any prior or current releases of hazardous wastes or constituents to the environment that may have occurred in the part or still be occurring.

Please provide the following information

- a. Date of release
- b. Type of waste released .
- c. Quantity or volume of waste released
- d. Describe nature of release (i.e., spill, overflow, ruptured pipe or tank, etc.)

A) Prior to 1982, leachate runoff intermittantly seeped into surface

drains. Refer to Exhibit V.

B) Annual maintenance of cap to eliminate wet spots and potential

seepage.

4. In regard to the prior releases described in Number 3 above, please provide (for each unit) any analytical data that may be available which would describe the nature and extent of environmental contamination that exists as a result of such releases. Please focus on concentrations of hazardous wastes or constituents present in contaminated soil or groundwater.

A) Refer to Exhibit VI

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the submittal is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (42 U.S.C. 6902 et seq. and 40 CFR 270.11(d))

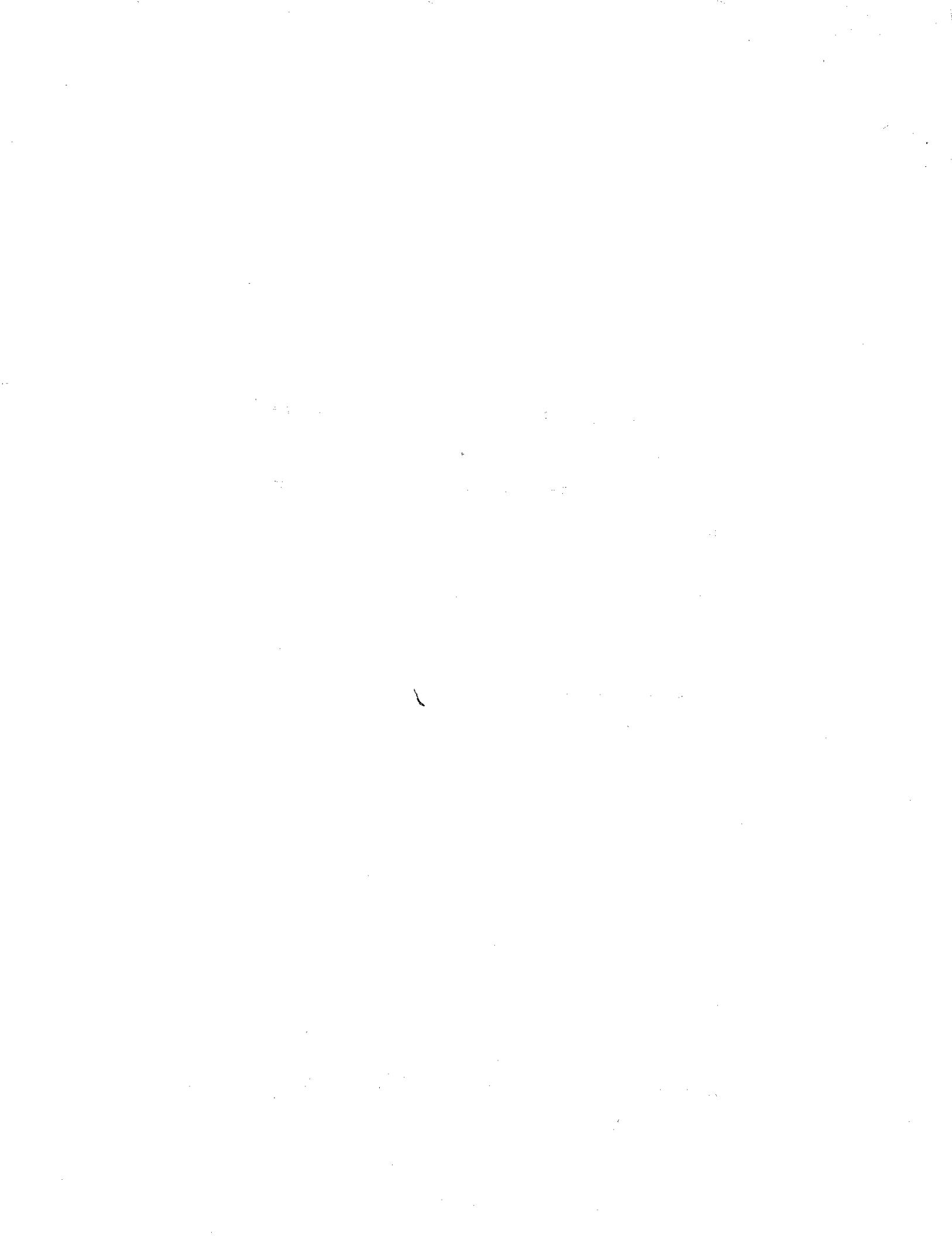
Ben C. Trethewey
Ben C. Trethewey, Manager, Mining Properties Dept.

Typed Name and Title

Ben C. Trethewey
Signature

8-20-85

Date





Ford Motor Company

R E C E I V E D

3001 Miller Road
Dearborn, Michigan 48121

MAY 16 1985

May 14, 1985

SOLID WASTE BRANCH
U.S. EPA, REGION V

5HS - 13
U. S. EPA
Region 5
230 South Dearborn Street
Chicago, IL 60604

Re: Corrective Action Requirements
Ford Motor Company Allen Park Clay Mine
MID 980568711

Gentlemen:

Enclosed please find the unsigned certification regarding potential release from solid waste management units. Information required to complete the certification is presently being collected and will be submitted to your office on May 31, 1985.

Yours very truly,

A handwritten signature in blue ink that appears to read "Ben C. Tretheway".
Ben C. Trethewey, Manager
Mining Properties Department

DSM:dp

Enclosure

15

CERTIFICATION REGARDING POTENTIAL RELEASES FROM
SOLID WASTE MANAGEMENT UNITS

FACILITY NAME: FORD MOTOR COMPANY ALLEN PARK CLAY MINE

EPA I.D. NUMBER: MID 980 568 711

LOCATION CITY: ALLEN PARK

STATE: MI CH

1. Are there any of the following solid waste management units (existing or closed) at your facility? NOTE - DO NOT INCLUDE HAZARDOUS WASTES UNITS CURRENTLY SHOWN IN YOUR PART B APPLICATION

	YES	NO
• Landfill	_____	_____
• Surface Impoundment	_____	_____
• Land Farm	_____	_____
• Waste Pile	_____	_____
• Incinerator	_____	_____
• Storage Tank (Above Ground)	_____	_____
• Storage Tank (Underground)	_____	_____
• Container Storage Area	_____	_____
• Injection Wells	_____	_____
• Wastewater Treatment Units	_____	_____
• Transfer Stations	_____	_____
• Waste Recycling Operations	_____	_____
• Waste Treatment, Detoxification	_____	_____
• Other	_____	_____

2. If there are "Yes" answers to any of the items in Number 1 above, please provide a description of the wastes that were stored, treated or disposed of in each unit. In particular, please focus on whether or not the wastes would be considered as hazardous wastes or hazardous constituents under RCRA. Also include any available data on quantities or volume of wastes disposed on and the dates of disposal. Please also provide a description of each unit and include capacity, dimensions, location at facility, provide a site plan if available.
- _____

NOTE: Hazardous waste are those identified in 40 CFR 261. Hazardous constituents are those listed in Appendix VIII of 40 CFR Part 261.

P557099049

APR 23 1985

5HS-13

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

B. C. Trethewey, Manager
Ford Motor Company Allen Park Clay Mine
3001 Miller Rd., Room 2042
Dearborn, MI 48121

RE: Corrective Action Requirements,
Hazardous and Solid Waste
Amendments of 1984
Ford Motor Company Allen Park Clay Mine
MID 980 568 711

Dear Mr. Trethewey:

As you know, we are currently reviewing Part B of the Resource Conservation and Recovery Act (RCRA) permit application for the above-referenced facility.

On November 8, 1984, the Hazardous and Solid Waste Amendments of 1984 (the Amendments) were enacted to modify RCRA. Under Section 206 (copy enclosed) of the Amendments, all RCRA permits issued after the date of enactment must provide for corrective action for all releases of hazardous waste or constituents from any solid waste management unit, regardless of the time at which waste was placed in the unit. Please note that both hazardous and non-hazardous waste can meet the definition of solid waste under 40 CFR 261.2.

Consequently, we must determine whether such releases have ever occurred at the facility site. If they have, we must ensure that corrective actions either have been taken or will be taken, pursuant to a RCRA permit. An important part of our determination includes your willingness (or unwillingness) to sign the enclosed certification statement. Please read it carefully and either sign it and return it, or return it to us unsigned with a cover letter of explanation, within three weeks of the date of this letter. Any information regarding releases of hazardous waste or hazardous constituents to the environment will be evaluated during the permit review process. Any tentative decision we make concerning your permit application will be public noticed in a newspaper of general circulation in the area of the facility.

Please contact the previously identified permit writer with our Agency for additional information.

Sincerely yours,

Karl J. Klepitsch Jr.

Karl J. Klepitsch, Jr.
Chief, Solid Waste Branch

228-20

Enclosures	TYPIST	AUTHOR	STU #1 CHIEF	STU #2 CHIEF	STU #3 CHIEF	TPS CHIEF	WMB CHIEF	WMD DIRECTOR
INITIALS	G.W.	R. Knob						
DATE	4/11/85	4/23/85						

REC'D APR 23 1985
FOR JUN 23 1985
JUN 23 1985

SENDER: Complete items 1, 2, 3 and 4 Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.	
1. <input type="checkbox"/> Show to whom, date and address of delivery. 2. <input type="checkbox"/> Restricted Delivery.	
3. Article Addressed to: B.C. TRETHEWEY, MANAGER FORD MOTOR COMPANY ALLEN PK CLAY MINE 3001 MILLER RD. - Room 2042 DEARBORN, MI 48121	
4. Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail Article Number P 557 099 049	
Always obtain signature of addressee or agent and DATE DELIVERED.	
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7. Date of Delivery MAY 2 1985	
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5HS-13 R. TRAUB
P 557 099 049

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to B.C. TRETHEWAY, MANAGER	
Street and No. 3001 MILLER RD.-RM 2042	
P.O., State and ZIP Code DEARBORN, MI 48121	
* U.S.G.P.O. 1983-403-517	Postage \$.22
Certified Fee	.75
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Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$ 1.67
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29 FEB 1985

PS Form 3800, Feb. 1982

5HS-13

R. TRAUB

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- Complete Items 1, 2, 3, and 4 on the reverse.
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TO 



PENALTY FOR PRIVATE
USE, \$300

ENVIRONMENTAL PROTECTION AGENCY
REGION V
230 SOUTH DEARBORN STREET
CHICAGO IL 60604

3. For the units noted in Number 1 above and also those hazardous wasteunits in your Part B application, please describe for each unit any data available on any prior or current releases of hazardous wastes or constituents to the environment that may have occurred in the part or still be occurring.

Please provide the following information

- a. Date of release
- b. Type of waste released .
- c. Quantity or volume of waste released
- d. Describe nature of release (i.e., spill, overflow, ruptured pipe or tank, etc.)

4. In regard to the prior releases described in Number 3 above, please provide (for each unit) any analytical data that may be available which would describe the nature and extent of environmental contamination that exists as a result of such releases. Please focus on concentrations of hazardous wastes or constituents present in contaminated soil or groundwater.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the submittal is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (42 U.S.C. 6902 et seq. and 40 CFR 270.11(d))

Typed Name and Title

Signature

Date

CONTINUING RELEASES AT PERMITTED FACILITIES

Sec. 206. Section 3004 of the Solid Waste Disposal Act is amended by adding the following new subsection after subsection (t) thereof:

"(u) **CONTINUING RELEASES AT PERMITTED FACILITIES.**—Standards promulgated under this section shall require, and a permit issued after the date of enactment of the Hazardous and Solid Waste Amendments of 1984 by the Administrator or a State shall require, corrective action for all releases of hazardous waste or constituents from any solid waste management unit at a treatment, storage, or disposal facility seeking a permit under this subtitle, regardless of the time at which waste was placed in such unit. Permits issued under section 3005 shall contain schedules of compliance for such corrective action (where such corrective action cannot be completed prior to issuance of the permit) and assurances of financial responsibility for completing such corrective action".

